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Zink, R.M.

1978

Journal

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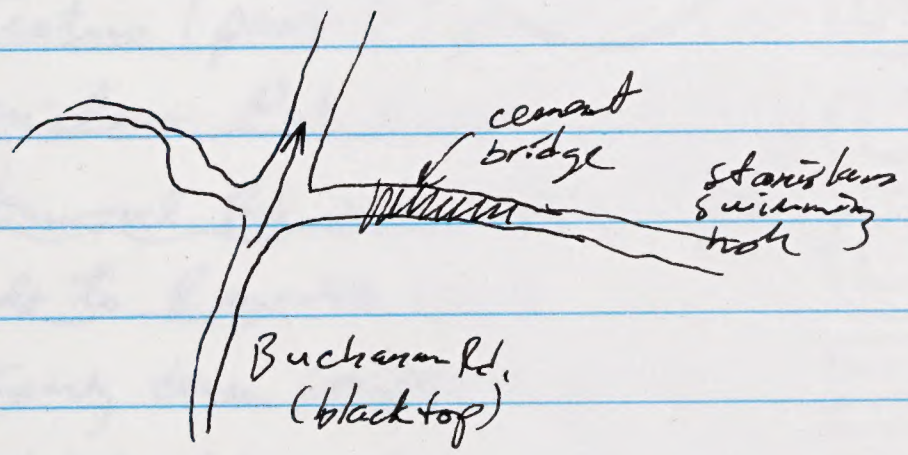
Stanislaus Nat. Forest, Tuolumne Co, Ca

27 May

Departed Berkeley 16:00 + took Hwys 13, 680, 580, 120/108 to Sonora (Tuolumne Co, Calif.). Contacted warden Vincent Dona + found he's retired, so called warden in Twain Harte (Fred Aulwurm) + informed him via message to daughter that I'd be collecting in area for few days. Mr. Dona suggested that I drive to Tuolumne + take Cottonwood Rd. for 18 miles to an area that burned 4-5 years ago. After getting several vague directions from locals I found Buchanan Rd - from which Cottonwood is supposed to branch off from (at a small bridge). At such a location I found 2 roads (1900) + took the center one:



I followed this for 18 miles (from jct. above) but found no burned over areas. There were some open areas w/ dense, low brush but of no great extent + I saw no Fox Sparrows the couple times I stopped. The forest is apparently fairly extensively logged but is still impressive. There are numerous dirt

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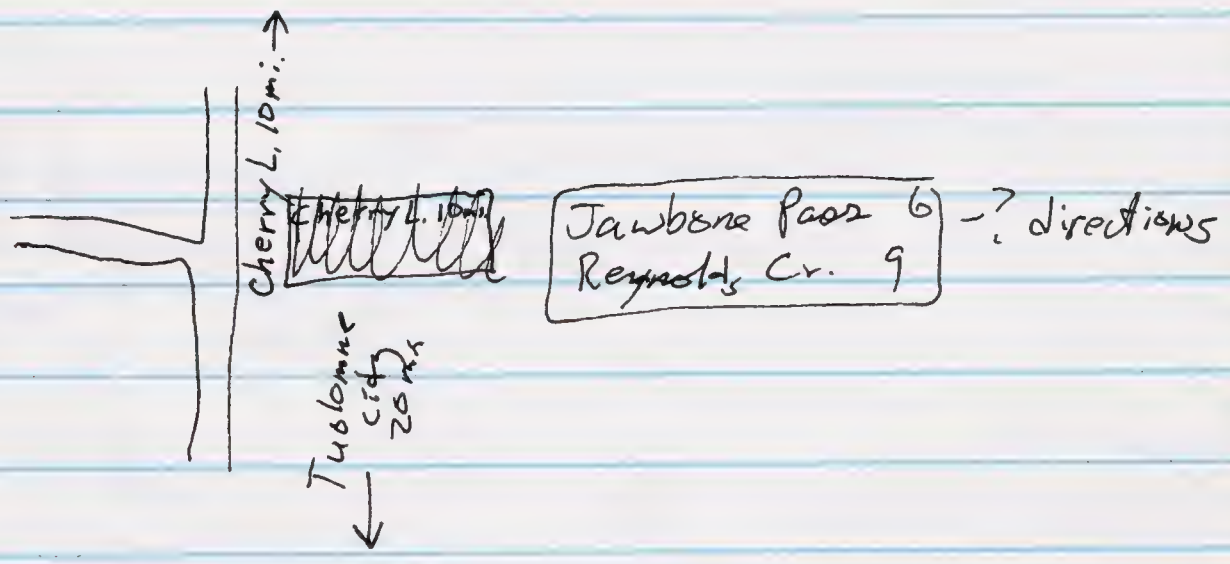
Stanislaus National Forest, Tuolumne Co, Calif.
roads branching off the main road + several camping spots ("formal"). So, I'm not actually sure where I am because of the non-existence of signs, however I'm near:



In the 1½ hrs. from 19:00-20:30, while driving this road I saw many Robins gathering grit along road, ♂ Bl. headed Grosbeak, Accipiter striatus (prob ♀) - perched in small tree along road Stanislaus Nat. Forest, Tuolumne Co, California - on Cottonwood Rd side branch (20 mi. from Tuolumne) which leads to Reynolds Creek

28 May

Fairly dense coniferous forest along this rd. Spent 0600-0700 birdwatching along road. Saw/heard: Sev. Wood Pewee, pair Hermit Warblers (in tall spruce), B.C. Chickadee (giving spring call), MacGill. Warbler (low underbrush along roadcut), many Juncos 2 copulating White-headed Wd pkrs, Robin, R.B. Nuthatch, Dus. Grapery + many calls/songs of which I'm not yet familiar. See sp. acct for Parus gambeli. Also coll. singing Warb. Vireo, silent Western Tanager. At the opening near creek saw a ♀ W. red Tan building nest (see sp. acct.). Also saw T. Solitaire, W. Olive-s. Flycatcher, Gray Squirrel, B.H. Grosbeak, 2B, T. Pigs.

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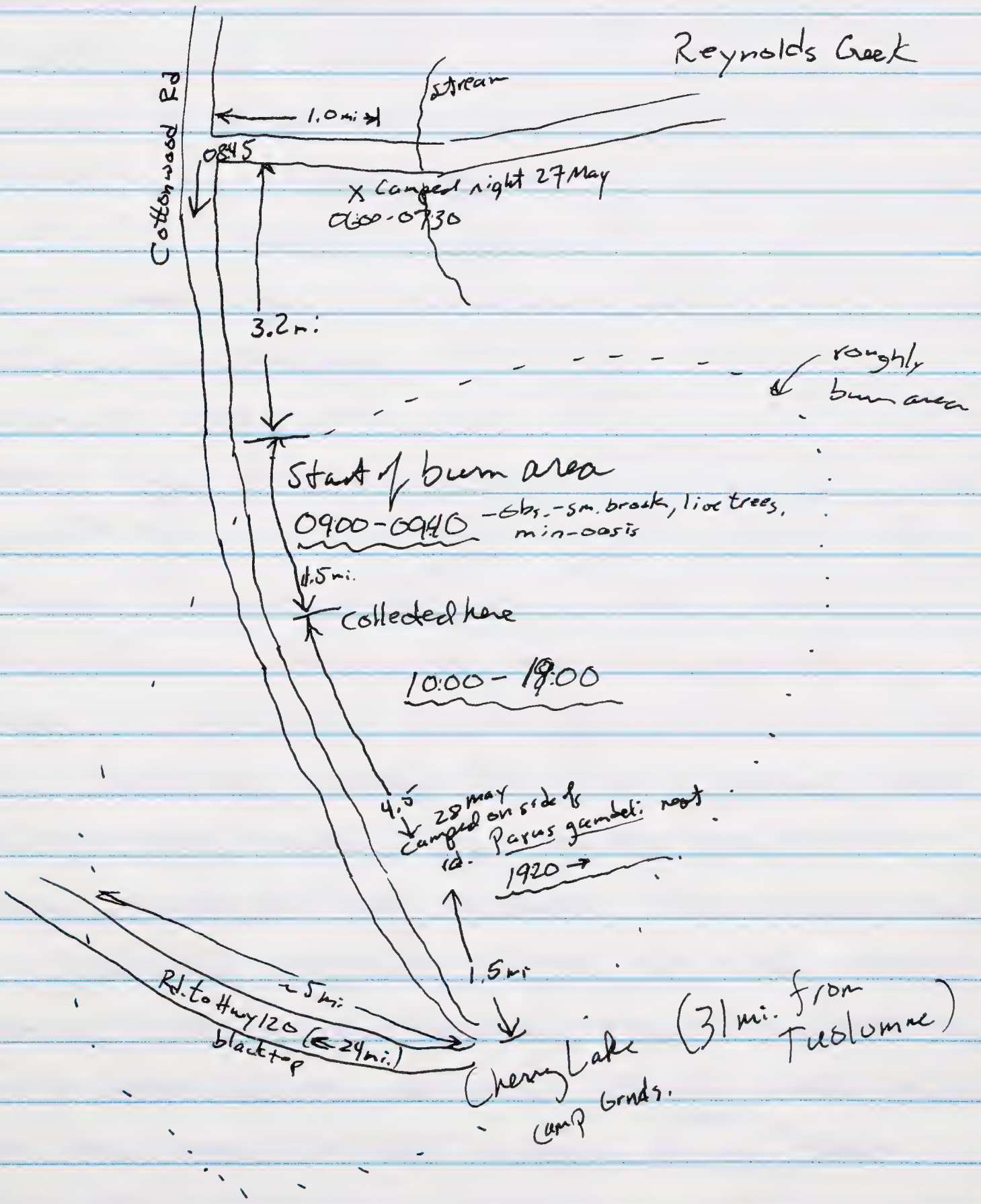
28 May (cont.) Stanislaus Nat. Forest, Tuolumne Co, California, on Cottonwood Rd. - from 20-30 mi E of Tuolumne City

Proceeded on Cottonwood Rd. towards Cherry Lake, looking for burn area that Vincent Dora told me about. Following localities visited today:



The forest is pretty dense until the burn area. This area was burned apparently 4-5 yrs. ago. There

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Stanislaus Nat. Forest, Tuolumne Co, California.
Cottonwood Rd (20.30 m. E from Tuolumne)

28 May (cont'd) are lots of dead trees standing & a few small patches of live ones. Some areas are bare, others in various stages of succession. At 0900-0940 stop saw: Steller's Jays, Euphagus sp. (Brewer's/Rusty Blackbird), Acorn Woodpeckers, Kestrel, R.B. Nuthatch, finches + siskins, singing Sol. vireo (in dead trees along sm. brook), W. Tan. (♂ singing, + ♀) several O.S. Flys., Chipping Sparrow, B.H. Grosbeak, Juncos.

Went to next area + spent 1000-1900. & noticed the first sizeable occurrence of low dense brush + saw a Fox Sparrow. This entire burn area should prove valuable. Will need to check aerial maps for nearest area that Fox sparrows could have invaded from + the extent + age of burn. The area is hilly w/ many standing dead + some live trees. There were many birds noted in assoc. w/ this area: Finches (Houses, Cassins) were numerous + in sm flocks, singing from dead trees + feeding on ground, Lazuli Buntings - fairly common, ♂ singing from dead tree, ♀ obs. carrying insects, B.H. Grosbs., W. Bluebird, Acorn Woodp., many O.S. Flycatchers, 2 R.T. Hawks, Chipping Sps., Yellow Warbler (near H$_2$O), Flicker (down live stands), Warb. Vireo, Steller's Jays, Fox Sp. (ssp. Sinuosa), Sm. wren (House?), MacGill. Warblers (singing from dead trees), quail (Mt. or Calif.), Eutamias, Sciurus griseus (W. Gray Sq.), Calif. Grd Sq.,

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Stanislaus Nat. Forest, Tuolumne Co., California, 25 mi E of Tuolumne on Cottonwood Rd, 5100ft.

28 May (con't) Spent several hrs searching the brush for Fox Sp. (saw ~15, coll. 4, see sp. acct). The soil is loose & sandy. Day was hot w/ sl. breeze. Collected 3 of common shrubs. Entire burn area should be good for Fox Sparrows.

29 May Stanislaus Nat. Forest, Tuolumne Co, California, see map 28 May 25-30 mi. E of Tuolumne City ~5100ft. (rd mi. on Cottonwood Rd)

Drove to Cherry L. + took rd towards Hwy 120 (sign says 24 mi.). Burn area evident for another 5 mi. Stopped 1000-1400 for notes, specimens. Saw Pil. Woodpk., Mt. & Bl. Chickadees. 14:15 - at 7 mi. from Cherry Lake burned area fringed by rd. - little undergrowth or brush. At 11.5 - some small open brushy areas (woody, dense, some grasses) but at 1445 no activity (hot, clear). Next 10 mi. go up + v. windy, some v. steep brushy slopes. At 5 mi. from 120 took side rd. Open forest w/ patches of brush-scrub. Bl-thr. Gray Warbler singing (see sp. acct.), Stellers Jays, Cassins Finch, singing Lark Sparrow, W. Bluebird, RB Sapsucker, Pacific Slope Fly, Nashville Warbler, Chipping Sp., Goldfinch sp., B-t. Gnatcatcher, Bullocks Oriole, ?G.-t. Towhee, Bl-H. Grosbeak, quail, T.V., R.-T. Hawk, 1700 - about 1-2 mi. from 120 - area of fairly dense chaparral w/ some trees + riparian - B.G. Warbler (w/ diff. version of song than other described today), Scrub Jay. Wrentit, T.V. [v. still hot]. 1725 at Hwy 120, → Buck Meadows

16:30

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Sierra Nat. Forest, 25-30 rd. miles (on Cottonwood Rd) E of Tuolumne Co. Calif, Tuolumne Co, Calif, ~5100ft.

29 May (cont). 1830 on Tuolumne Co. 120, 5 from 120 on Smith Station Rd. → Jordan Cr. Rd (1825). Then drove

Sierra Nat. Forest, Mariposa Co, California, Jerseydale area

30 May Warden in Mariposa told me of an old burn site at Jerseydale. Stopped at Forest Station across from campground + asked about burned + logged areas - the person there didn't know. Went to Forest Service Hdqtrs in Mariposa + talked to ranger who said to try Miami Mt., Ponderosa Basin, + ridge to the E of Jerseydale campground. At Jerseydale R.S. Jon Tucker (knows his stuff) - drove from R.S. along Footman Ridge. There is an old burn area (early 60's?). Mostly scrub + ≡ 1 mi² R.S. Tower. Prof W. Bluebirds (F carrying food) several went to calling, Scrub Jay, Mt. Chickadee, W. W. Pewee at forest edge. [Tucker also suggested an area E (≈1 mi) of Mid Pines, Miami Mt., + rd. off of Harvis Rd (1030) - both burned 1962-63.] Spent 20 min. hunting the chaparral + found little. & wonder if it's too high for this time of year (elev. ~5000) for Fox Sparrows. Also heard a wren (Bewick's) that sang from top of dead tree in chaparral + sounded (to me) like a Fox Sparrow. Saw Black Phoebe, Junco, Steller's Jay, Chipping Sp. at forest edge. Heard Lark, Quail + saw Robin + Lark Sparrow near R.S. West. Kingbird on Hwy 49 at Triangle Rd.

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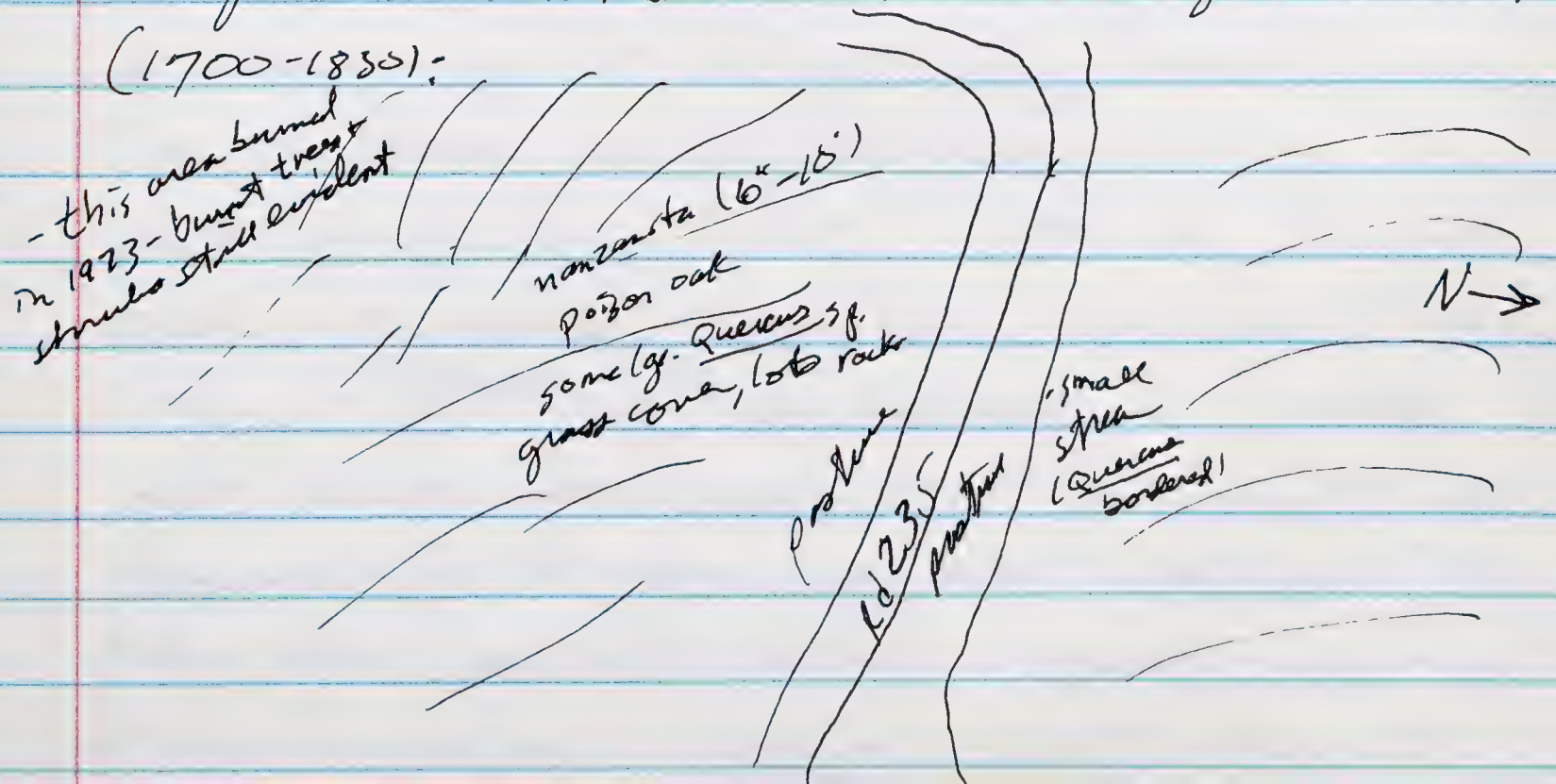
Sierra Nat. Forest, Mariposa Co, California

30 May (cont'd) Went to area off Harrison Rd (T.6S, R20E, sec 1-N) but area seemed to dense + overgrown - is perhaps worth checking out later. Decided to go to Oakhurst + ask about areas to the E. (120) Got very little info at Oakhurst - said there were few burns in area: W side of Bass Lake (98 acres), Manzanita Lake, + Drove the W side of Bass L + saw a, Manzanita L. burn (see map) not evident but was ~100 A. Went to District station at North Fork, + talked to Ed Horgan - he's an expert on the fire history of much of the Sierra - pointed out several areas (see map)

Sierra Nat. Forest, T.9S, R.23E, sec. 17

1640 Part of area burned in 1973 (lightening fire). Brush is less dense + in N central section 17 there is relatively flat region. Parked along sparsely wooded stream. Pr. of Plain Titmouse + Scrub Jays, Brewers Blbird, Acorn Woodp. Am thoroughly confused at this point as to what constitutes Fox Sparrow habitat. Hunted this area for ~90 min. (1700-1830):



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Sierra Nat. Forest, T. 9S, R. 23E, sec. 17

30 May cont. Saw ♂ Bl.-chin. sparrow, several Scrub Jays (they always respond to pishing), TV, Ash-thr. Flycatcher, Plain Titmouse (in trees), Eutamias sp.?, & Spermophilus beecheyi. The scrub varies from sparse to dense & low to high. There's a small stream w/ trees. Perhaps it's too hot a wrong time of day. Departed 1915 & still no new sounds.

Sierra Nat. Forest

20 June Departed Berkeley 2:00 p.m. - to Merced, Mariposa, Oakhurst - South Fork, DOR R.S.T. Bowles (RM 2681) on E shore of Bass Lake. Camped at Fish Rocks Creek (T. 8S, R. 24E, sec. 4). Drove pretty much straight through. From South Fork, took 41 (Minarets) to SE, past Castle Pk, Lion Rt., Clearwater Station. From about Castle Pk on (to Fish Cr, at least) there's a mixture of forest-dense scrub. Two locals independently estimated the elev. at 3500-4000.

21 June 0500 - Robin singing. Several others in dawn chorus that I was unsure of, (Vireo) T o.s. Fly, 0545 - Rock Creek Campground - M. dove, Scrub Jay. Day cool & clear. Still 60% ~40% forest 40% ~60% scrub. 0630 - 2 mi. past "mile high curve" (5393') - 2 Steller Jay, 2+? Hermit Warbler, 2 Mt. chickadee, 4 T Cassin Finch, 1 RBN w/hatch, ♂ + ♀ Western Tanager, 4 T Dark-eyed Junco, heard West. Wood Pewee - habitat open some bare rock exposed, 40-50% pine (young-old) + some manzanita. The 90's changed, esp. past Jackass Rock (7112'). Their lots of bedrock (?) exposed, manzanita + conifers of varying mixtures. Stopped at a brushy site & was

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Madera Co, California

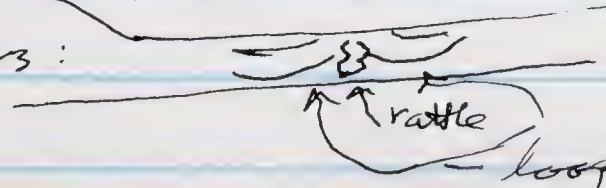
Sierra Nat. Forest. 1 mi N, 1 mi E Jackass Rock

21 June(cont) immediately greeted by several singing Fox Sparrows. Spent essentially rest of day in immed vicinity. Coll. 10 + Fox Sparrows (+ 1 dr others seen (6+)) Sav 1 Mac Gill. Warbler, 2 Williamson Sapsucker, unid. quail calling (prob. mtn. Quail), 2♀ Cal. Towhee, 3♂ Cal. chick, 2+ Mt. Chickadee, Robin,

The amt. of exposed rock is puzzling. There is evidence of a past burn - did the soil erode before the brush could establish? The situation is ~ as 5 to 6 mi: N, Jackass 3 mi: E Jackass Rock - very again the mixture of bush, conifer + exposed rock varying. Rare Clover meadow Station - lots of snow still in woods. Afternoon today stayed at a small (100 yds x 50 yds) meadow, on rd to Graveyard Mdw. - saw 2 Robin, 1 Bra. Creeper (see sp. acct), 1 Ad ♂ Icteria virens auricollaris.

Camped to the sound of coyote bark about a mile away.

22 June 0600. Tres frois! Returned to Fox Sp. local (note correct local is T. 6S, R 25 E, sec. 31). 0750 - 2+ Fox Sp., 2+ Steller Jay, Robin, R. B. Nut. calling, 1 Brn Creeper, singing Junco (saw 4+), Raven heard (near Jackass Rock), ♂+♀ West. Tanager ♂ calling, 0900 Mt. Chickadee, 2+ Jun. Fox Sparrows calling, 0915 - O.S. Flc calling (see sp. acct), Eutamias, B.-thr. Gray Warbler (?), 1 W.H. Woodpkr. Quail head, Empidonax (see sp. acct), 0915 Vireo ?, while carefully walking along the exposed rocks, saw a rattler sunning. The snake was coiled as follows:



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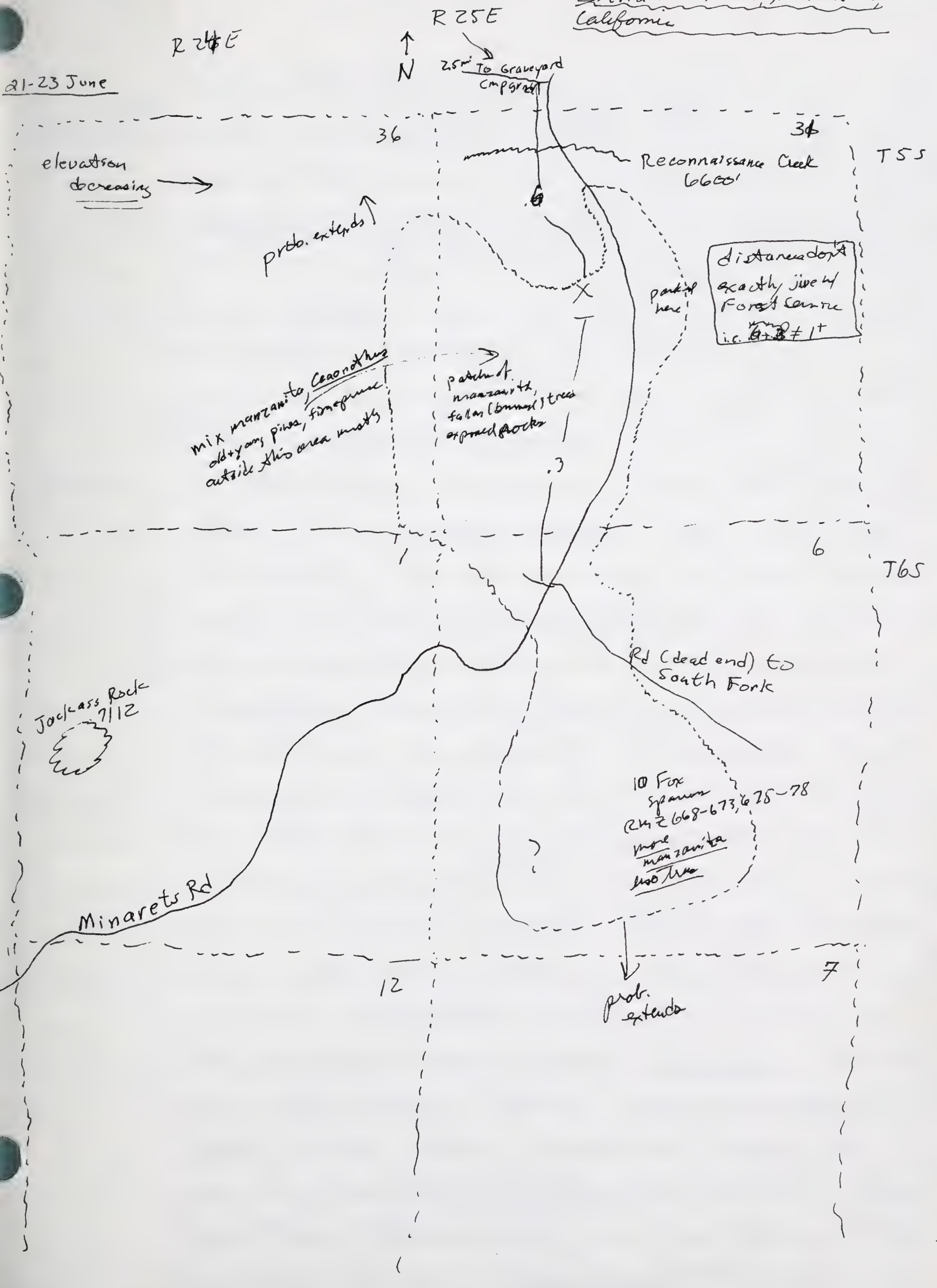
Sierra Nat. Forest, Madera Co. California

21-23 June



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22 June (cont)

Sierra Natl. Forest, Madera Co., California, T6S, R25E, sec. 31
most prominent feature was the rattle striking out.
Most of the snake was shaded + gave a "confusing" picture -
however when I threw a rock at it it buzzed very loudly
for 20-30 sec. By 0915 it was very still + warm. Found
one of Mellard, Red-shafted Flicker, pair Dendroica coronata (audubon.), chasing each other
a nest. Chickadee nest (see spp. acct). Spent from 1100-dark
at meadow (as yesterday) - SE ¼ sec. 30 + worked a
bird. Saw 1 Br. Creeper, seaside Robins, heard Thrush (very like)?
3+ Juncos, Stellers Jay, unid woodpkr.

23 June

Up 0530 + went to Fox Sparrow local. 0600 - cool + pt.
clear. 2 Quail (m+f), 2+ m+f. chickadees, 2+ Stellers Jays, 1 RB Nuthatch,
1+ Junco hybrids, O.S. Flycatcher, Br. Creeper, 1 singing ♂ Mac. Gull, Warbler,
Vireo? singing. Hunted down road (m. marker) to rd. to South
Fork. These lots open areas w/ dense clumps of manzanita +
Ceanothus - seem to be fewer birds than the other local.
This whole area is a mixture of brush + conifers. There is
some evidence of a past fire. The area around South Fork
Rd (T.6S, R.25E, sec. 6) is worthy of further work. +
collected 10 Fox Sparrows there (see spp. acct.) 0600-0800 + 1100-1230.
Also saw: Goshawk (see spp. acct), Rufous-sided Towhee, 2
Cassins Finch (♂'s singing), 2+ Stellers Jay, 2+ Quail (one on grnd. in dense
manzanita - didn't flush even though I was very close + shot a
Fox Sparrow almost directly over them), Euphagus, Olive-s. Fly
catcher calling, 1 Willeomson Sapsucker, 1 White headed Woodpkr., Red-
shafted Flicker, 2+ Robin. Took several photos of the
area. Then drove to Mammoth Pool, where there is a store
(+ gas .83/gal.). The store is open from Treat opens (mid April
to October). Camped at Placer Campground + worked on birds - saw

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Sierra Nat. Forest, Madera Co., California, Bloca Campground, T.6S, R.24E, SW sec. 28

3+ Stellar Jay, 4+ Brewer's Blackbird

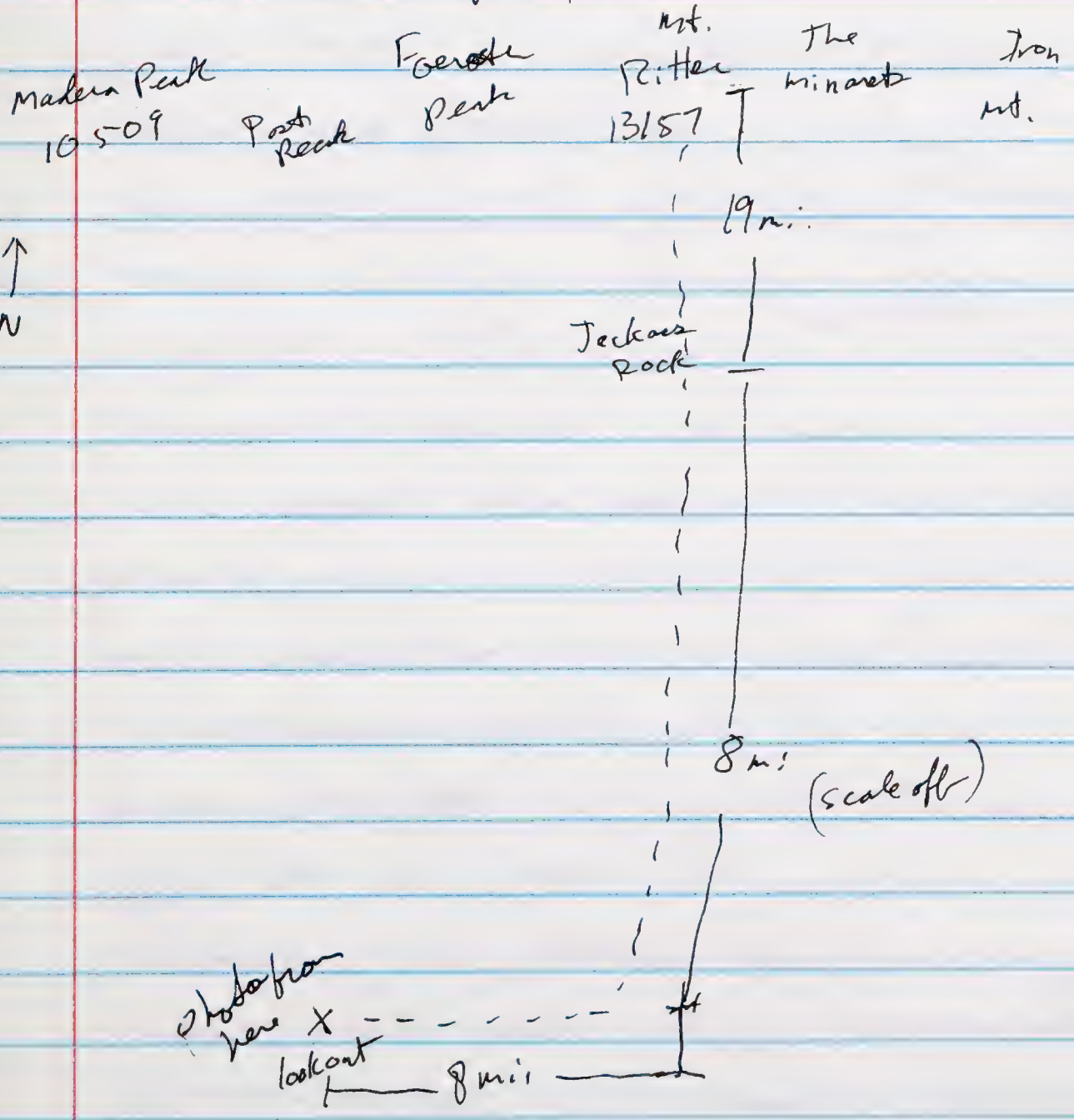
23 June — Dipper along creek (Chiquito?), Robin, Bl-headed Grosbeak,

24 June — Worked on birds + notes until 2:30.

[23 June addendum - South from Jackass Rock the elev. drops steadily + the habitat changes to mostly forest, then to chaparral as you approach No. + So. Fork

Sierra Nat. Forest, Madera Co. California, Mile High Obsrvat. Pt. T.7S, R.24E, sec. 16

24 June — 3:30 p.m. Have great view to north - very nice display at lookout. Took pics.



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Sierra Nat. Forest, Madera Co, California

24 June

The road goes cont. down to North Fork (~2200'). From there went to Auberry + from there to Shaver Lake. The area around North Fork (+ from mile High ceme down (south) is chaparral (saw 2 Scrub Jay 4 Lady. Quail, 2 4 Mourning dove.) From Auberry, the road climbs again + encounters forest. At Shaver Lake called ~~Ranger~~ Wardlow Coons + informed him Dilbe collecting in area. He suggested W of Huntington L. + . Edison Util. Co. has a big campground on W side of Shaver Lake, open Memorial Day – October – Has Hot Showers. At picnic grnds heard 2 Fox Sparrows singing in manzanita. Camped near Shaver Dam.

Sierra Nat. Forest, Fresno Co., California ~1 NW of Shaver Lake

25 June

Drove on Stump Creek Rd, took dirt rd. to Aspen Mdw. (Leave Stump Ck. Rd at T. 8S, R. 24E, NE¼ sec. 13) – this rd is under construction. Saw 2+ Steller Jay, heard Pil. Woodpkr. 1 Townsend Solitaire, B. H. Grosbeak. Met Forest Service Tech. Mike Reddy – he led me towards a brush field, at T. 7S, R. 25E, SW¼ sec 30 + T. 7S, R 24E NE¼ sec. 25 – however rd. was not traversible, even by pickup. Went to another brushfield at T. 7S, R. 24E, secs. 13, 14, 23, 24 + T. 7S, R. 24E, secs. 18 + 19. The forest service has sprayed much of this area to kill off the brush + there lots of dead manzanita + some new. It's basically different than near Jackass Fork (see 24 June ex.) as there's a predominance of young ponderosa + sugar pines. Saw 2 R. S. Towhee, 1 of Bl. headed Grosbeak, Nashville Warbler, 2+ Fox Sparrows (collected). Drove to ~ Mt. Tom (9018') – there a snowbrush field at T. 7S, R. 26E NW sec. 6. Along Stump Creek Rd, there are numerous

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Sierra Nat. Forest, Fresno Co. California, T. 7S, R. 26E, sec. 5 (Stump Cr. Rd to)

25 June (cont'd) patches of snowbrush + manzanita near the road however as a rule it is very low (< 2') + seemingly young growth - yet there were some areas probably suitable for Fox Sparrows - I stopped at a couple + played ~1130-1200 Fox Sp. tape but got no response (also poor time of day). Along Stump Cr. Rd saw Robins, Wilson's Bushtit (prob. jamaicensis), Stopped at T7S, R.26E, sec.5 on rd. to Mt. Tom Lookout + prepared the 2 specimens from earlier today. Very interesting woods - still lots of runoff (many streams), muddy ground + snow drifts remaining in woods. About 4 headed on foot down rd toward Mt. Tom looking for the brush fields, which I found - lots of low (3') thicket Ceanothus + manzanita, in patches interspersed w/ forest. Part of the brush field is essentially flat but to the S it slopes steeply (to Stump Creek Rd). Lots of bird activity, saw: 2+ Hummers (sp?), heard Thrush calling (prob.), 2+ Mt. Chickadee, 4+ West. Tanager - 2 singing, Hairy Woodpkr, Flicker, several Robins, 2+ Juncos, 2 Cassin's Finch - responded to squeaking, 2 Warb. Vireos, 4+ Green-tailed Towhees, & MacGill. Warb, heard Chipmunk, 9+ Audubon Warbler, 2 Chipping Sparrow.

Retreated to Sample Meadow Campground + built fire + worked on birds. Ste v. cold here + if any extensive work is planned here, should be prepared

26 June Returned to Bronfield, 1000-1200. Considerably "quieter" at this time of day. Overcast + cold. Hunted up slope (E of rd) + found fairly extensive stretches of manzanita + snowbrush. Saw: Warb. Vireo singing from Raven

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7300'-7500'

Sierra Nat. Forest, Fresno Co. California, T.7S, R.26E, Sec. 5

26 June cont'd. mid way up 40' spruce, 4+ Juncos (2 singing), 4 mt. Chickadees, 2+ Robin, 4+ G.T. Towhee, 2+ Chipping sparrow, Thrush calling, 2+ Audubon Warbler, Quail calling, pr Mahog. Warblers, R.B. Nuthatch calling. Returned to car 1:00 - 2:15 & worked on bird notes. 2:25-4:00 - walked down rd about 2-2½ miles towards Mt. Tom. The view about 2 mi. in is fantastic as you face NW & have an unobstructed view of Banner & Mt. Ritter. The area here (at 2½ mi.) is mostly brushy but the slope is much steeper. From 2:25-3:15 was quite still & had to squeak vigorously to get much response. Saw: Hermit Thrush (3), 2 Warbling Vireo, 2+ Juncos, R.B. Nuthatch, 2+ Mt. Chickadees (see sp. acct), Hermit Warbler or - in 60-70' spruce & fir, singing ..... we cheat you + ..., 2+ Western Tanagers, Brn. Creeper, W. Wood Pewee (1) - dead trees at edge of clearing, House Wren (see sp. acct), 1 Stellar Jay, 2 Cassins Finch, heard a Parula Warbler-like sound - an ascending comb-like sound from 70' fir, 2+ G.T. Towhee, Raven, Weather - mostly overcast, cool & sl. rain. Worked on birds until 6:30 then drove back to Shaver Lake. Was 29 miles from call. location to Big Creek (elev. 4950'). [A man at Sample Meadow Campgnd said the dirt road in from 168 was very rough but will probably be passable in later season]

Sierra Nat. Forest, Fresno Co, California, Swanson Campgnd, T. 10S, R 25E, NW¼ sec. 6, ~5400'

27 June spent day here working on birds. Saw: Raven, 4+ Fox Sparrow, B.H. 1 Flicker, 2+ Robin, 2+ Chipping Sparrow, W. Tan. Creeper, Quail, 4+ Brewers Blackbird, 3+ Junco, 3+ Mt. Chickadee, O.S. Flycatcher

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Sierra National Forest, Fresno Co, California - S of Shaver Lake, T. 10S, R. 25E, N½ sec. 6

28 June — spent a.m. in Shaver Lake + Swanson Mdw campgrnd. In p.m. (12:00-1:30) hunted just N of Dinkey Cr. Rd (at T. 10S, R. 25E, N½ sec. 4). This area is a pure conifer forest and lots of boulders + brush, especially dense Ceanothus + stands of manzanita; trees are grnd, Ponderosa + Sugar pine + cedar + a few scattered oaks + maples. Coll. 6 Fox Sparrows (see sp. acct) + saw 1 4th male Yellow Warbler, 4 Yellow Warblers, 2 Chipping Sparrows, 1 O.S. Fly, 2 W. Wood Pewees, 2+ Robin, 2+ Juncos, W. Tanager, R.B. Nuthatch. Returned to camp (Swanson Mdw) + spent rest of day working on birds. Around campgrounds saw/heard: W. Wood Pewee, Raven, West. Tanager, B.H. Grosbeak (♂), 4+ Brewer's Blackbird, Calaptes auratus, 4+ Fox Sparrows, Robin, Brn. Creeper, Mt. Chickadee,

29 June — Returned to coll. local (T. 5, R. 25E, N½ sec. 1) from 0730-0915 - Overcast + still, and [Has been exceptionally cool last 2 weeks, also note heavy snowfall & past wtr. has water levels high - many rds have only been open for 1-2 wks]. The plant community here is quite heterogeneous, with patches of dense Ceanothus (the prickly kind), manzanita + trees of various sorts (conifers + a few deciduous) + size. There's also a fair bit of open ground. So it's nearly impossible to describe precisely the habitat (elev ~5400', + fairly level), except as heterogeneous. Saw/heard: Mt. Quail, O.S. Flycatcher, 3-4 W. Wood Pewees, 4+ Yellow Warbler, 4 Mac G. Warbler, 4 Chipping Sparrow, Steller Jay, 2+ Robin, 2+ Juncos (see sp. acct), W. Tan. ♂, 2 Red-br. Nuthatch. Before

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Sierra National Forest, Fresno Co, California

29 June (cont) sided Towhee (in dense manzanita + made a sound like a Gray Catbird "meow"), Solitary Vireo - in 40' pine at clearing-singing, R. shafted Flicker, Mt. Chickadee. Collected 5 Fox Sparrows. Had some rotten luck of wounding 3 birds + losing them + dropping 2 others dead (dense cover) + couldn't find, Returned to camp ground + worked on birds until ~5:00 p.m. Then returned to same spot as AM + saw/heard: 2 R.-sided Towhee, 1 Grn.-tailed Towhee (dense manzanita), House Wren, Chipping Sparrow (Mt. Quail, 2 pr), Chickadee, Junco (+ 3/4 fledglings), 2 Mac Gill. Warbler, 3-4 Yellow Warblers, Wet the rest mostly overcast. Returned to campgr. + worked on birds. Thought I heard a Poorwill ~ / in evening.

30 June Returned to coll. locality at 0545 - clear + cool, + calm. Heard/saw: ~~2 Mt. Quail (Saw 1 male), 2 Rufous-sided Towhee, 2 Grn-tailed Towhee~~

sp.	#	habitat	remarks
Mt. Quail	2+	brush on ground	calling fairly frequently
White-headed Woodpk.	2	conifer woodland	—
R.S. Flicker	1+?	"	heard only
R-sided Towhee	2+	scrub oak + woodland	calling - both the buzzy + catbird-like calls
Red-b. Nuthatch	1+?	woodland-forest	heard only
Brn. Creeper	1+?	" "	" "
West. Tanager	1+?	" "	" "
Junco	5+	" + scrub	- 4 fledglings
Robin	3+	" "	— heard only

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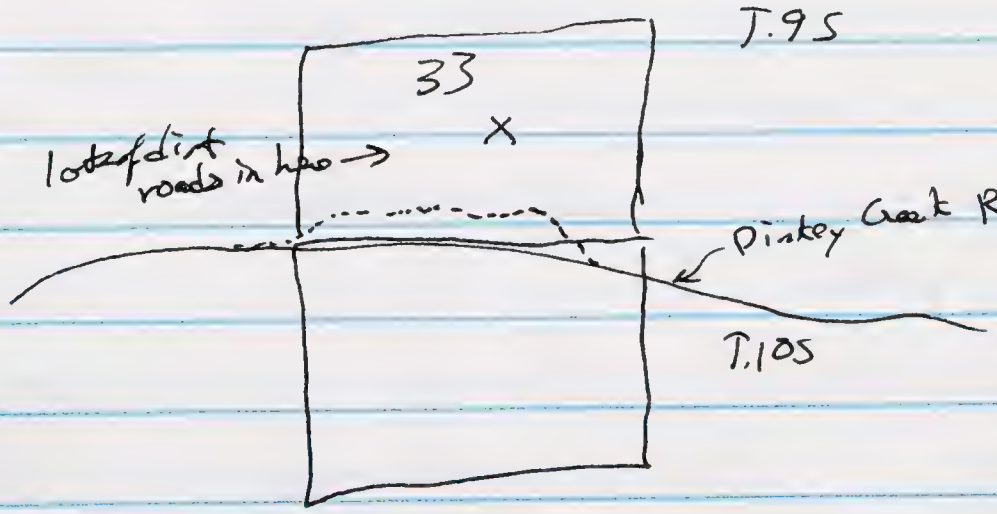
Sierra National Forest, Fresno Co. California, 1 mi. S Shaver Lake

30 June (cont) Steller Jay 3+ forest woodland - calls, (incl territorial cracking)
Gr. tailed Towhee 2 scrub - calling, responding to squeaking
Mt. Chickadee 3+ woodland " " " "
Yellow Warbler 4+ scrub - saw 1 ♂ carrying food in bill
MacGill. Warbler 4+ " - noted quite a bit of vocalizing in amt. of black on throat bib.
Cassins Finch 2+ woodland-scrub- - calling
Warbling Vireo 1 " — singing
Chipping Sparrow 2+ " calling
Fox Sparrow 15+ scrub-woodland - coll. 8

Again this area is a heterogeneous composite of scrub + woodland + some dense patches of trees. Some decid. trees (oaks) + pines + spruce. Some areas of exposed rocks also. Found an area for a campspot (occupied by 2 campers):



Returned to campground + packed. Reported 10:30.
Left Shaver Lake 11:45, arrived MVZ 16:45.

Stanislaus Nat. Forest, 2 mi. N Woods Ridge L.O., Tuolumne Co., California 5100' T.2N, R.18E, sec. 35

8 July Departed Berkeley 7:00 p.m., arrived ~6 mi. W of Cherry Lake

R.M. Zink
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Stanislaus Nat. Forest, 2 mi. N Woods Ridge L.O., ~~Tuolumne Co.~~ Tuolumne Co., California, 5100', T.2N, R.18E, sec.35

8 July 1130 p.m. Tried to call warden (Fred Ashworth) in Twain Harte but got no answer

9 July 0645-0845. Hunted the area that'd visited 28 May. At 0645 was clear, calm + cool, but by 0900 was getting hot + whole afternoon was quite warm. The conif. elev. for this spot is 5000-5200. The brush is quite dense + up to 6' tall. There are numerous gaps + trails. The dominant aspect is the large # of standing dead timber. The soil is very fine + there is ~2" of loose sooty dust covering most of the ground. Slopes range from 0-30° + face . The dominant brush is , w scattered Ceanothus + manzanita. Throughout much of the brush there's a scattering of dead logs, branches + stumps. Saw:

Sp.	#	Habitat	remarks
Red-t. Hawk	1	dead standing tree over brush	called as it flew in front of me
Quail 8?	2-4	brush	callings
Hummer ?	1	standing live grass	
Red-sh. Flicker	2	" "	calling
Acorn Woodpkr	1	dead standing trees	
W. Wood Pewee	2+	" " "	calling
O.S. Fly	3-5	" " "	"
swallow sp.	5	over area	
Steller Jay	2+	tree-dead + live	calling
House Wren	2	brush	scolding
Robin	1	flying over	
Vireo sp.	1	live Trees	calling
Yellow Warb	5+	brush	scolding, beyond. Fr. Squeaks

R.M. Zink
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Stanislaus Nat. Forest, T. 2N, R. 18E, Sec. 35 2 mi. N Woods Ridge L.O., 5100', Tuolumne Co, California

8 July cont	MacGillivrays Warb	4+	brush v. responsive to squeak
	Bl.-h. Grosbeak	2	"
	Lazuli Bunting	4+	" , ♂♂ calling from dead tree
	Cassins Finch	2	" " "
	Brown Towhee (?)	1	"
	Ruf.-sided Towhee	1+	" , ♂ singing
	Junco	4+	" , on grd., incl. fledglings
	chipping Sp.	4+	" feeding young
	Fox Sp.	8+	" , sec Sp. acct
[	Mourning Dove	6	" , flock

Drove to Rd 2N24 + worked on 3 Fox Sp. in an area w/ more live trees (+ lots dead standing + fallen also) + some brush saw: Nashville Warb, MacGill. Warb, 2 Blu. Creeper, Mt. Chickadee, RB Nuthatch, ♂ W. Tanager + 1 KILLDEER! There was no standing water around that I could see. Drove down (N) Rd 2N89 - goes through burn (there's a sign at Jct Cottonwood Rd - 2N89 that says that 12500 acres burned in 1973. Much of the area is bare but there's varying amounts of brush succession, some grass + meadow + considerable stands of standing dead timber. Found some areas w/ Fox Sparrows but at 3:00 p.m. (+hot) there was little activity. Returned to call. local. (T. 2N, R. 18E, sec. 35) ~5:30 p.m. Hunted from 6:00 p.m. to 8:15 p.m. Walked approx. 1-2 mi. N of Cottonwood Rd - there's several poorly kept logging rds that don't show on Forest Service maps. If this brush has grown since 1973 it can sure spread rapidly - some stands of a Ceanothus-like bush but w/ leaves 1½" ⊙

Green-tail. Towhee carrying grub in bill

R.M. Zink

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2 mi. N Woods Ridge L.O., 5100', Tuolumne Co., California, T. 2N, R. 18E, Sec. 35

9 July cont.

gets to 6'-7'. At any rate the post fire succession has resulted in a mosaic - open ground, stands (+ scattered) of live conifers, some young oaks, + varying densities (low or sparse to heavy) + heights (4" to 6') of brushy vegetation (_____, Ceanothus, + manzanita dominant). The Forest Service (?) maintains 6-10' fire breaks in the brush fields. Had rather slow time call, Fox Sparrows - almost impossible to approach w/in 40 range of a singing male (see cyg. acct.). The sites along Cottonwood Rd where I parked was right on 5000' + I climbed some hills to 5180+. There were hills 100'-200' higher. Its a hot place to work. From 6:00 pm to 8:15 p.m. saw:

Sp.	#	habitat	remarks
♀ Sharp-shinned Hawk	1	overscrub w/ standing dead + live trees	
Red-tailed Hawk	1	" "	molting & outer 1°-half grown in - chased by smallerwt
Falco sparverius	1	" " + perching chasing	
Mt. Quail	2+	scrub	calling
Red-s. Flicker	3+	" + trees	" + chasing
Hairy Woodp.	2	live + dead trees	near stream, calling loudly
West. Wood Pewee	3+	trees in scrub	calling
O.S. Flycat.	4+	" " "	"
Vio.-gn Swallow	20+	50-100' overscrub	- " +
Steller Jay	3+	scrub + dense live + dead trees	calling
MA. Chickadee	4-6	very noisy group in some 30' oaks bordering scrub + rocky 20 cliffs	
House Wren	2	scrub	
Robin	2	stands of trees	
West. Bluebird	5-8	trees, ", scrub	calling, chasing,

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2 mi. N Woods Ridge L.O., Tuolumne Co. California, 5100', T. 2N, R. 18E, sec. 35

9 July con't.

Nashville Warbler	2+	scrub	♂ v. respondant to squeaks = pr. + fledgling
? Yellow Warbler	4+	"	
Herm. Th.	2	stand of live cedars in scrub, ♂ feeding young	
MacGill.	4+	← prob. underestimate by 10 scrub ≤ 7'	
Bl-headed Grosbeak	3+	"	
Lazuli Bunting	4+	ground to 30' in dead trees	
		" ♂♂ singing	
Cassin Finch	2	high in dead trees	
		" ♂ "	
Lesser Goldfinch	5+	dead trees brush, to 20', calling + chasing	
Rufous-sided Towhee	3+	scrub, ♂♂ calling, 1 fledgling	
Junco	10+	" , on ground, to 20', calling + pairs chasing	
Chipping Sparrow	5+	"	
Fox Sparrow	10+	"	

warm, clear + 0-10 m.p.h. wind

10 July

Hunted 1-2 mi. N of car from 0610-0930. Again mostly a few Fox Sp. + only got 2 (w/ 410) as they're difficult to approach. Had to resort to fairly steep grades + dense brush.

Sp.	#	habitat	remarks
R.t. Hawk	1	over scrub	
Kestrel	1	perched dead tree over scrub	
Mt. Quail	2+	pair ~~saw~~ in scrub	
Band-tailed Pigeon	3	over scrub	
M. dove	2+	on ground in scrub	
Mrid Hummer	1	scrub	
Acorn Woodpkr.	1	stand + single dead trees in scrub	
Williamson Sapsucker	1 (2?)	" "	
Hairy Woodp.	2	" "	
R.-shafted Flicker	3+	" "	, calling

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Journal

2 mi. N Woods Ridge C.O., 5100', Tuolumne Co., California, T. 2N, R. 18E, sec. 35

10 July wit	O.S. Fly	4+	dead trees over scrub + along Tuolumne Cr.
	Empidonax	1	3-5' dense scrub
	W. Wood Pewee	3+	" in dead trees calling
	Vio.-grn. Swallow	20+	over scrub
	Steller Jay	3+	Around live+dead trees, calling
	Mt. Chickadee	2	" " - -
	House Wren	2+	scrub
	Bewick's Wren	1	"
	Robin	2+	scrub + dead trees
	West. Bluebird	5+	dead trees in scrub
	Nashville Warb.	1+	scrub
	? Yellow Warbler	1 ?	"
	Mac Gill. Warb.	2+	scrub
	Bl-headed Grosb.	2	(? imm. juv.) dead trees in scrub
	Lazuli Bunt.	4+	" " " "
	Lesser Goldfinch	4+	" " " "
	R. sided Towhee	2+	scrub (1 ad. juv.)
	Brown "	? 1	" (not juv. R.S.)
	Junco	10-20	lots juvs ground, chasing, calling, singing
	Fox Sp.	10	scrub

Coll. 2 Fox Sp. + dep. @ ~1200 for Sonora. Don't recommend that drive for a VW on a hot day - esp. up. Visited R.S. in Milwalk, as wasn't sure if I should take Hwy 108 or 4. Ron Mcdarris suggested #4 because there was more level ground (108 follows rims + canyons) + less people. #108 is real "touristy". Drove up Hwy 4, past 5000' found lots of scrub along road but the extent back from

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Journal

Sonora to Bear Valley; Tuolumne + Alpine Co, California

10 July (cont'd) The road was rocky. Stopped at Hells Kitchen Vista P.A. + shot a Fox Sparrow at 8:30 p.m.; heard a Nighthawk + heard others. Stanislaus River, 3 mi. S, 1 mi. W Bear Valley. Tuolumne Co, Calif. + Alpine Co.

11 July Drove to Mt. Reba Ski area (T. 7N, R 18E, Sec. 5+6) at 0630, elev. 7500-8000 ft. Hunted a fairly steep slope (to 7900') for (hr.) Many Green-tailed Towhees, 4+ Fox Sparrows, Juncos, Solitary Vireo, ? Yellow Warb.. Then drove S on Hwy 4 to 1 mi. S Onion Valley + took Rd 7N01 (Stanislaus R. Rd) to Sugar Hill. There is some brush but seemed mainly to parallel the road. On way back, past "undeveloped" Stanisl. R. Campground. Found a fairly extensive brush field + rocky (granite) area. Got 5 Fox Sparrows 0915-1015, + saw/heard several others. The area has numerous granite outcroppings + is mixed brush (Ceanothus + manzanita) + conifers. In some areas the conifers are fairly dense. The elevation is 6200'-6300'. Returned to S Stanislaus R. Campground at 6000' + worked on birds. Saw at camp 2 Fox Sparrow, 8 Steller Jay, Brn. Creeper, Mt. Chickadee, Vireo sp., 4+ Robin, 10+ Bl-headed Grosbeak, W. Tan. Returned to coll. local of this a.m. + coll. 3 more Fox Sp., saw little else (Kestrel, Junco, R.B. Nuthatch, G.T. Towhee). Returned to camp 8:30 p.m.

12 July 0600 Drove to local S of Big Meadow Campground - a Forester told me yesterday of a fairly extensive brushfield facing S. It's like the area coll. yesterday except there perhaps more trees; elev 6400'-6500'. Coll. 4 Fox Sp. + saw/heard others. Saw/heard: 3 Mt. Chickadee, 2 R.B. Nuthatch, Brn. Creeper, 2 Robin, 1 B.t. Pigeon, 3+ Junco, unid. warbler in brush, 3+ Steller Jay, 2+ R.S. Towhee (+ Juv.)

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Journal

Bean Valley Area, Tuolumne Co. California

12 July (cont.) 1 Flicker / Sapsucker sp., Mt. Quail, On return photographed rattlesnake on Stan. R. Rd. Walked on Sierra + took brief dip in Stanislaus R. Re the rattlesnake - & tried to get it to rattle but it would only assume a defensive posture + hiss loudly, swelling its body by ¾-1". At 6:00 p.m. went further down Stanislaus R. Rd (towards Hwy 4) + found another, large brushy area + hunted until 8:30 p.m. See catalog for precise location - it's located on both sides of the road in the SW¼ of sec. 26. The extent is not evident from road, but it's ~1.7 mi. from the Stanislaus R on the Stan. River Rd. Saw/heard 6:00 p.m. - 8:30 pm (clear, cool, still):

+ Mallard	1	pond near road bordering road
Mt. Quail	2+	calling
Kestrel	1	perched in trees in mixed scrub + conifer
? Hairy Woodp.	1	trees
West. Wood Pewee	2+	2 chasing ? Steller Jay
O.S. Fly	2+	calling, perched tops trees
Steller Jay	3+	"
Mt. Chickadee	3+	" (several calls, incl. - - - -)
Robin	2+	
West. Bluebird	1+	trees overhead
R.B. Nuthatch	1+	heard
Nighthawk	1+?	" overhead 8:00 p.m.
Townsends Sol. Thrush	1+	in trees along road
Brn. Creeper	1+	heard
Fox Sparrow	8+	coll. 2

13 July 0600-0700 returned to coll. local of yesterday p.m. Clear, cool + still. Saw: heard: Townsends Solitaire, Dipper (along creek), 2+ O.S. Flycatcher, 2+ Mt. Chickadee, 2 Hairy woodpeckers, Western Tan. ♂ singing

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Journal

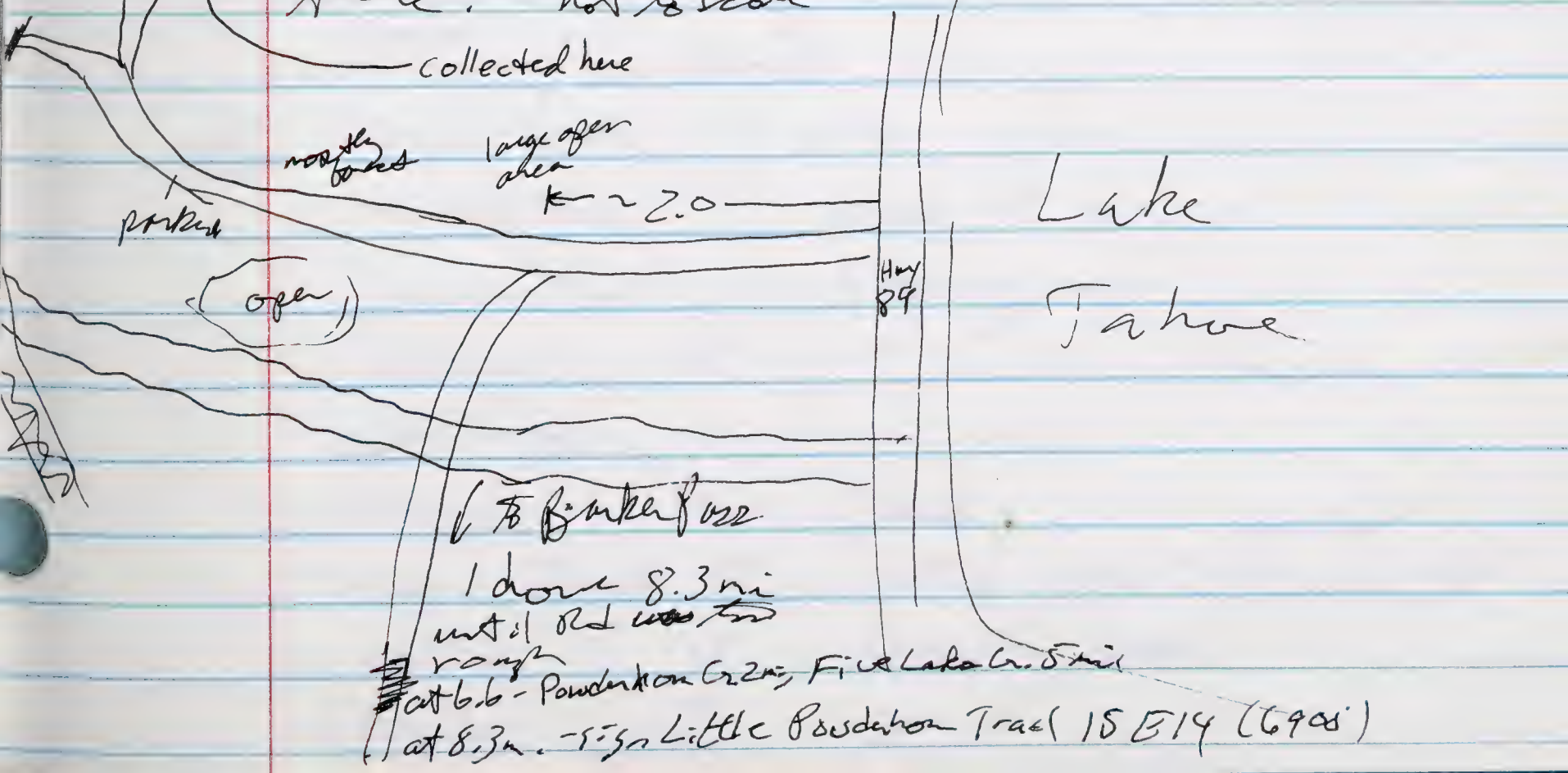
Bear Valley area, to Markleeville to L. Tahoe

[This stop is 2.0 miles from stoplight, P. Eng's rd + 1.0 mi from Hwy 4] *

13 July cont. Mt Junco, Audubon woods, Sagebrush

Got lost for 15 min as the brushfield is even more extensive than I thought. Went to Mt. Reba local (1.0 mile from Hwy 4) + hunted 30 min, saw: 4 T.G.T. Towhee, 2 T Fox Sparrow, Cassins Finch, Junco, 2+ O.S. Fly, Wren (House?), Evening Grosbeak,

Drove on Hwy 4 to Markleeville. The Pass (Ebbetts) is very scenic + a worthwhile drive - however in a VW is best done from the way I went (W → E) as it drops off pretty quickly (esp Pacific Grade). Scene changes notably on E slope - dominant brush seems to be a low sage-like species, fewer trees + steeper slopes. Markleeville has most supplies. Drove to District R.S. in S. Lake Tahoe + asked about coll. locals - is prob too built up to get a site 30 mi W of previous local so took suggestion of 7 + drove Hwy 89 along W side of Lake Tahoe to Kaspian Campground + then took rd west from there: not to scale



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Journal

W Lake Tahoe Region, Rd to Barker Pass + W to T. 15 N, R. 16 E, 33 SW¼ SE¼

13 July (wet) There were some brushy areas on the Barker Pass Rd but of no great extent. Briefly hunted a couple of areas + saw/heard 2-4 Fox sparrow, C.t. Tahoe, Kestrel, & Red. Woods, Junco, R Sq. Returned to jxn. + proceeded W on rd from 8q + stopped at place where rd was too rough. Walked to sec. 33 (see Catalog) + found a fairly extensive forest field + edge. 2 Fox Sp + several Juncos. This hopefully will be good locale as it's only a few miles from the "Tahoe Tavern" side of the mid-1920's. The entire area gets pretty heavy use + the shore is very built up. The close proximity of the Lake + its tourists could be a problem otherwise. The habitat in Sec. 33, that followed rd is (fairly steep) mixture of conifers + brush - some stands of conifers + some stands of brush

14 July 0900-1100 Hunted the same area, but all only 1 Fox Sparrow saw several others. By 1000 was getting hot + not much was moving, Saw/heard: (clear, still.)

crow or raven ?	Hermit Warbler	1+ pairs singing
	MacGill. Warb.	1+ scrub ♂ singing
	Audubon Warb	2+ + streamalong scrub
	W. Tanager	2+ " " " calling, singing
	Brn. Creeper	1+ " " " "
	Junco	8+ scrub + " " "
	Hermit Thrush	3+ calling from 0900 - 1400 hrs (almost can't)
	O.S. Fly	2+ fr along stream
	Fox Sp.	8+ scrub

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6500'-6700' T.15N, R.16E, NE¼sec.14
Lake Tahoe Region, 4mi E Ward Pk., Placer Co. California

14 July Returned to car + worked on birds. At 4:00pm drove to Hwy 89 for supplies. Stopped at Forest Service Info at William Kent + talked to Kathy Doyle (a former 208 187 student 2 yrs ago). She had several suggestions for places to try + I followed one - from Hwy 89 take Pine[redacted] Drive, one block turn Rt on Tahoe Park Heights + go to Top of hill (mi.), then take Big Pine Rd dirt rd To Silver Tip Area + go left - main rd. ends + take dirt rd around fence. It first I was skeptical as it was near housing but the road goes on for quite a ways (I was stopped by, muddy rd conditions). There a good deal of mixed brush + conifer along rd. In about 45 min. coll. 5 Fox Sp. + saw several others. Also saw: And. Warb., Brn-h. Cowbird, W. Tan., Mt. Chick., R.B. Nuthatch., 10 Juncos.

15 July From 0645-0730 coll. 8 Fox Sparrows - seems to be best time of day. There are patches of conifers scattered among the expanse of dense forest. Also saw/heard: 2 Hermit Thrush, Sapsucker, 4 Mt. Chickadee, R.B. Nuthatch, 2 And. Warbler, 2 West. Tan, 2 Stellar Jay, Brn-h. Cowbird. Worked on bird table 7:00pm. + went back to Forest Serv. Info. Stayed at Sugar Pine Campground ($4.00) - but w/ hot showers.

16 July Drove to 4mi E Ward Pk at 0630 + collected until 0830. Clear, cool, still. Coll. 6 Fox Sp. Saw/heard: Hairy Woodp., Sapsucker heard Quail, 2 Wil. Warbler, 2 And. Warbler, 2 Hermit Thrush, Mt. Chickadee, Nuthatch (R.B.?), 2 Stellar Jay, 2 West. Tanager, 2 Brn-h Cowbird, 5 Junco, Prairie-like descending buzz.

Returned to car

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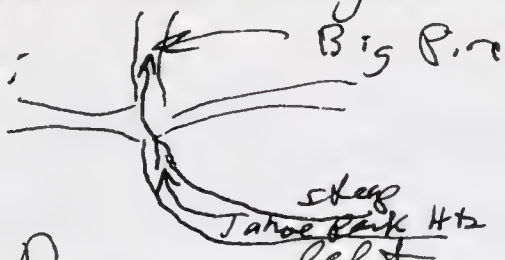
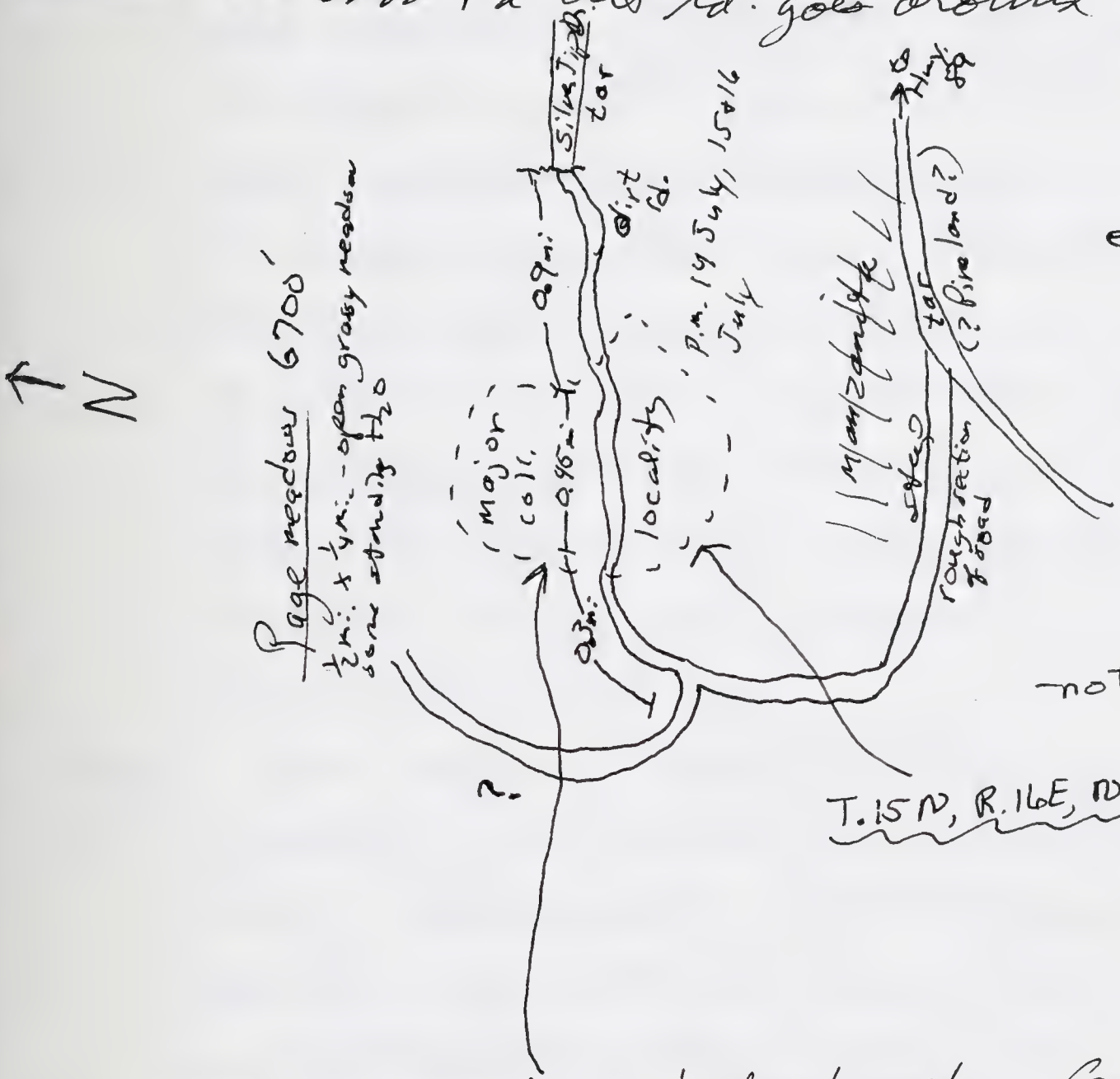
Collections Localities on W side Lake Tahoe

-from Hwy 89 take Pine Ave (just north of Will. Kent. Nat. Forest Campground) 1 block + turn right on ~~Lake~~ Tahoe Park Hts to top of hill to: Big Pine Drive for about 3 blocks



to Silver Tip Dr. + go ~~right~~ left on Silver Tip Dr. for about 6 blocks - ~~tar~~ ends + a dirt rd. goes around barrier:



This area is a composite of broken forest + Ceanothus patches of varying extent + density. The brush is ≤ 4' + of the thorny Ceanothus sp. The topography is mostly flat - some no evidence of past burn; some v. large stumps remain from logging activities. There are some large conifers but generally the trees do not appear mature. Towards Page (Paige) Meadows & there's several area of Salix + Populus.

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see map — to Sagehen

Yuba: E Ward Pk, Placer Co, California 6500-6700

16 July cont. + did birds. At 5:00 p.m. walked to Page Meadows. It's a neat place - quite secluded but accessible to dirt bikes + cars. At meadow call a scolding Spotted Sandpiper & saw 5 Juncos, 10 Cassins Finch, 2 Robin, 3 Chipping Sparrow, 2 R.w. Blackbird. Also walked down rd other direction (see map towards Tan) The descent to the Tan (? Pineland) is steeper. The slope above rd. is 1° mixed manzanita + conifer. Saw/heard: G.T. Towhee 2+, Fox Sparrow, Nashville Warbler, Brn. Creeper, 3+ Mt. Chickadee, W. Tanager, This area is worth re-collecting for Fox Sp. as the habitat is sufficiently extensive to support large #'s (& coll. 20, in 2+ days).

17 July — B'fast + supplies in Tahoe City, Headed up Hwy 89 to Truckee + got directions at District R.S. to Sagehen Creek Research station (Univ. Calif.) about 7 mi. W of the R.S. (+ jxn Hwy 80) & turn rd. going left (west), just in front of double brown garage (also on left). Follow this ~ 2.0 mi to Sagehen Gr. Met Vern Conder, who manages the station year around. Worked on birds until 5:00 p.m. & then met Marty Raphael, who's doing last of 4 yr. study on hole nesting birds in this area. He suggested several areas where it would be easy to collect P. iliaca. This area (not station) burned in 1960 (39000 acres) & has been censused to assess post burn avifaunal succession (Bock + Lynch 1970, & Bock, Raphael, & Bock w/ Us. Bird. 1978) - in 1975 Fox Sparrow densities were 29.9 pairs/40.5 ha (= 100 acres) on the burned plot - which

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Sagehen Creek area Nevada Co, California

17 July — is dominated by Ceanothus velutinus (Ceanothus penetrans, Ceanothus modoc Eastw.) & Arctostaphylos patula, some Ribes aureum, + Ceanothus squamulosus prostratus + Ceanothus cuneatus jepsonii var. sempervirens, some wildflowers. West end to T. 19N, R. 16E, S 1/2 Sec. 33 from 6:45 pm to 8:00 pm. + calls, 4 Fox sp. Sam; heard; Common nighthawk - over head + calling

Chipping Sparrow	4+	brush
Mt. Bluebird	3+	dead + live standing trees
Flicker	1+	heard
G-t. Towhee	2+	" in brush
Fox sp.	10+	singing + in brush
Empidonax	3+	brush
Junco	1+	"

18 July — 0630-0830 call 4 Fox sp. in same locality. Sam/Wanda Kathy Doyle came up from S. Tahoe City.

Common Nighthawk	1	calling overhead
Mt. Bluebird	3+	" in brush
Empidonax	3+	in brush
O.S. Fly	2+	calling in trees near rd
Mt. Chickadee	4	2 ad, 2 juv. in brush
Flicker	1+	calling
Red-y-s. Sapsucker	1	dead stump
G.t. Towhee	3+	brush
Yellow Warbler	2+	"
Junco		
Robin	2+	flying overbrush
Brn-h. Cowbird	6	3♂, 3♀ on dead stumps, 2♂ displaying on " " for 1♀

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Sagehen Hills, T. 19 N, R. 16 E, secs. 32-33, Nevada Co, California

con't
18 July

Went to Truckee for ice. Returned to Sagehen area ~1:15 p.m. + drove to another brushfield that Marty Raphael showed me yesterday (T. 19 N, R. 16 E, SE¼ sec. 32) - it's essentially similar to the S½ of sec. 33. The entire burn area has received different treatment. Some areas have been bulldozed + terraced, some (most) areas the dead fallen timber has been stacked in piles +/or rows, brush has been removed from some areas + others are untreated brushfields. The areas hunted today were essentially untreated brushfields. Bock + Lynch (Condor 72:182-189, 1970) described the vegetation of their "unburned" + "burned" plots:

elev. 7000'
plots = 20.9 acres

Unburned		Burned
Pinus jeffreyi	Jeffrey pine	few mature P. jeffreyi + A. concolor
Abies concolor	white fir	mulis ear (Wyethia mollis)
P. lambertiana	sugar pine (canopy)	tobacco brush, squaw carpet
P. murrayana	lodgepole pine	golden currant (Ribes aureum)
A. magnifica	red fir	green-leaf manzanita (Arctostaphylos patula)
Libocedrus decurrens	incense cedar	rabbit-brush (Haplopappus bloomeri)
	tobacco brush (understory + young conifers)	+ young pine
Ceanothus velutinus		
C. prostratus	squaw carpet	
Castanopsis sempervirens	chinquapin	

The topography is fairly level w/ some rolling hills + only a few very steep places.

Marty Raphael said he's been here in mid-May + obs. what he thought were territorial Fox Sparrows - although he added that it

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Saglehen Hills, Nevada Co., California

18 July cont'd would depend on the severity of the winter, amount of snowfall + arrival of spring. Returned to S½ of sec. 33 from 6:30 p.m. to 8:00 p.m. + coll. 6 Fox Sparrows (14 for day). Saw/heard:

Com. Nighthawk	5	flying, diving (w/ characteristic noise), + calling
Mt. Bluebird	3-5	+ pr (livestock) in brush
Empidonax	3-5	calling in brush

[+ Thrynomanes 18 July 0630-0830]

Note: see Bork et al. (1978, Wils. Bull.) for a very good description of the birds of the Sierra area.

19 July Worked on birds all day at Saglehen Ca. Research Station

20 July 0730-0900 clear, cool, st. ll hunted S½ of sec. 33 + got 3 Fox Sp. + 1 juv. Gm-tailed Tattler (by mistake). Saw 2+ Nighthawks + the usual (see note above). Worked on birds + went to Truckee for supplies.

Saglehen to Quincy

21 July Spent to 4:00 p.m. at Saglehen; arrived Quincy ~ 6:00. The drive is nice (days 2088') + passes through some lg. open grazing lands + meadows. Went to U.S. Forestry Station on Bucks/Meadow Valley + talked to a TA (Tom?) who told me to try Bucks Summit + Silver Lk for brush fields over 5000'. Drove towards Bucks Lake. At Bucks Summit (T. 24 N., R 8 E., sec. 31-32) + there an old burned + dense brush - many with Gm Thr

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Journal

Plumas Co., California

Bucks Summit 6350-6405', Deans Valley Rd

21 July — Castanopsis + several other spp. Hunted for ~2 hrs in heavy brush + several Fox Sp., coll. 1 (See sp. acct.), Called Warbler Bob Orange (Quincy) to inform of my coll. activities.

22 July — 0545 - 0730 hunted this brushfield + coll. 9 Fox Sparrows, Uller and Stitt. Saw/heard 3 Steller Jay, 15+ Fox Pair mtn. Quail + several very young quail, Nashville Warb sp., Flicker, G.T. Towhee, O.S. Fly, MacG. Warb., Chickadee, Nuthatch, Lewis Woodpkr.

Returned to Whitehorse campgnd + worked on birds.

23 July — 0700-0830 hunted the N side of rd (uphill). This entire brushfield is prd. an old burn. There are some standing dead + live timber. The brush is very dense + seems to be a greater plant diversity area than other areas sampled to date. The Summit area is where most of the brush is. There is a fairly large expanse that is fairly level about + below rd. The slope is steep. Returned to camp. Met Herb Parker (Jan McMartin), went to the Quincy fair. Camped Deans Valley

24 July — Went to Quincy to look for Lig Wr - none in Red Bluff or Redding so ended drive to Reno, Nev. Drive from Quincy = clear v. intense. A mtn. range w/ pine trees for most of the route passage. Stayed in Portola, CA.

25 July — Returned to Quincy, Meadow Valley, Bucks Lake. Drove for hrs trying to find Pacific Tree Frog in Sierra Co. but left! Took several many turns.

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Bucks Lake area, Plumas Co., California to Lassen, Shasta Co., California

25 July cont'd. Took rd to Willow Creek + then to Pac. Crest Trail. We also went down rd to Greenborn Mine - along this rd there's a fairly lge brushfield - along rim of Feather River (top of canyon). Drove back along Lookout Rock to rd to Quincy. Drove N to S end of Lassen Vol. Park. Talked to bartender in Mineral + a forester - the rd. W of park is dirt + ascends to a brushy area + then descends to Viola. Also, from Hwy 36/89 go N on Mineral rd to Dry Lake, take A turnoff to rt (SorE) that says "to Hwy 36/89" & + this also passes a burn area. Ended up driving through the park - did see 2 Fox sp. & 1.0 mi S of S end of Park in a brushy area. The park goes 8000+ + is a fantastic drive. There's still lots of snow 7000+ + Summit Lake was still mostly covered by ice. Parked just out of park near manzanita Lake.

26 July 0600 - Rain + cloudy. 0630 drove along Hwy 44/89 where's there a lot of brush along rd. Stopped at 1 pt. + saw 1 Fox sp. but the area are too close to rd. Took rd (#16) to Ashpan Flat + took another rd to Red Mtn. Much of the forest has been cleared but there's little or no brush. Stopped a Forest Service truck - they suggested I drive rd to Badger Mtn. & West Prospect Pk. Along Hwy 44/89 at the Vista Pt. there's an old burn (T32N, R4E, sec. 13) but at 4700'. The rd. ascends + gets to an extensive brushfield (at 6000') at

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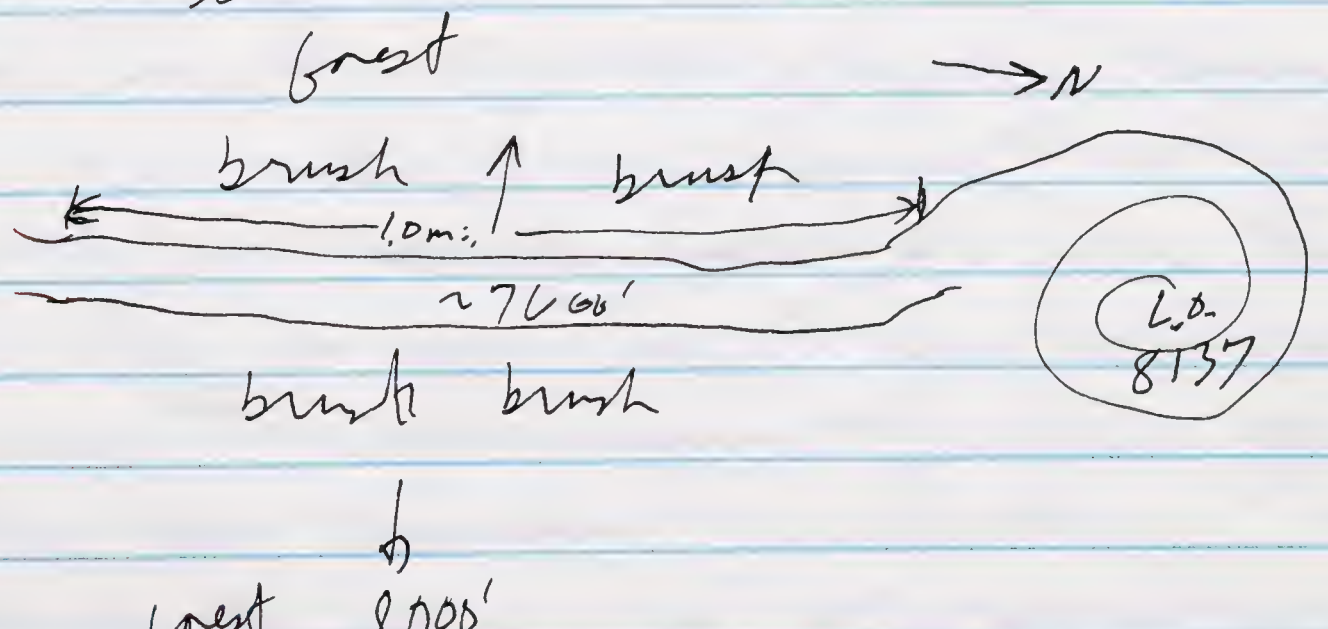
Lassen Pk area Shasta Co. California

26 July cont

approx T. 32 N, R 5 E, ~~sec~~ S½ sec. 33, SW¼ sec. 34 + T 31 N, R 5 E, sec. 3 - along rd 32N12. Stopped + saw several For Sp. but decided to drive on. Ended up at West Prospect Pk lookout station (well worth the drive). From ~2 mi. before the L.O. the area along the rd is fairly dense brush (manzanita + ceanothus) + numerous standing live conifers. Spent 20 min. at L.O. talking to Forest Service person (Bill) - have excellent view of entire N side of Lassen + adjoined Forest Service land. ~~Left~~ Returned to T. 31 N, R 5 E, NE¼ sec. 2 + coll. 4 For Sp. from 1000-1130. Cloudy, cool, slt breeze. ~~Early heard~~; ~~Also~~ coll. 6 For Sp. 7:00 pm - 8:00 pm (see sp. acct). While eating lunch saw a flocked 7-10 Red Crossbills fly into a Pine + coll. 1 (RM 2811). The habitat of this area is:



During both ~~trips~~ coll. trips can heard: 1 lge ♀ Accipiter sp., Flicker, 2 ♂ Yell. Warblers (1 ♂ molting + 1 juv. moving through brush), 1 ♂ Nashville Warb - also moving through brush, 5 ♂ Junco (1 juv.), 4 ♂ Empidonax, 1 B. t. Pigeon, 5 ♂ Stellar Jay, 2 Townsend Solitaire

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Lassen Peak area, Shasta Co, California (6½ mi. N, 7 mi. E Lassen Pk 7600')

27 July Hunted brush along rd from 0700-0830 - clear, cool & sl. breeze
Coll. 4 Fox Sp. Saw/heard: ~~2 B.t. Pigeon, 2 Mt. Chickadee,~~

B. t. Pig	2	top tall dead trees
O. S. Flycatcher	2	" " ", calling
Empidonax	4+	brush, tail wagging, calling
Clark Nutcracker	5	tops trees - apparently passing through
?, W. B. Nuthatch	1	trees
Brn Creeper	1	"
? Gnatcatcher	1	heard in trees, fairly certain
MA. Chickadee	4+	brush + trees
Nashville Warb	10+	brush } both ad + juv., many
Y/Mon Warb	10+	" } in heavy melt
Audubon Warb	2+	trees, sings (fairly often)
Juncos	5+	brush - ~~juvs~~ flocking + juv. present

This area has some fairly extensive stretches of brush + patches interspersed w/ dead + live trees; woodland + forest. Some trees: Red, White Fir, a spruce, Ponderosa Pine. While working on birds thought I heard another (?) flock of Red Crossbills. Hunted again 6:15 p.m. - 7:30 p.m. + got 4 Empid. Saw essentially the above list (w/o Clark Nutcracker). There seems to be a fairly sizeable aggregation of Y/M. + Nashville Warb in the brush

28 July Hunted 0700-0900, clear, cool, sl. breeze. Coll. 6 Fox Sp. Saw same as yesterday + a pair juv. MA. Chickadee - & 2+ birds giving a Warbler like call from the brush. Still a movement of warblers through brush. Went to Hat Creek for supplies. Hunted 5:15 p.m. to 9:30 p.m. Very still evening - sl. breeze, cool + clear + very

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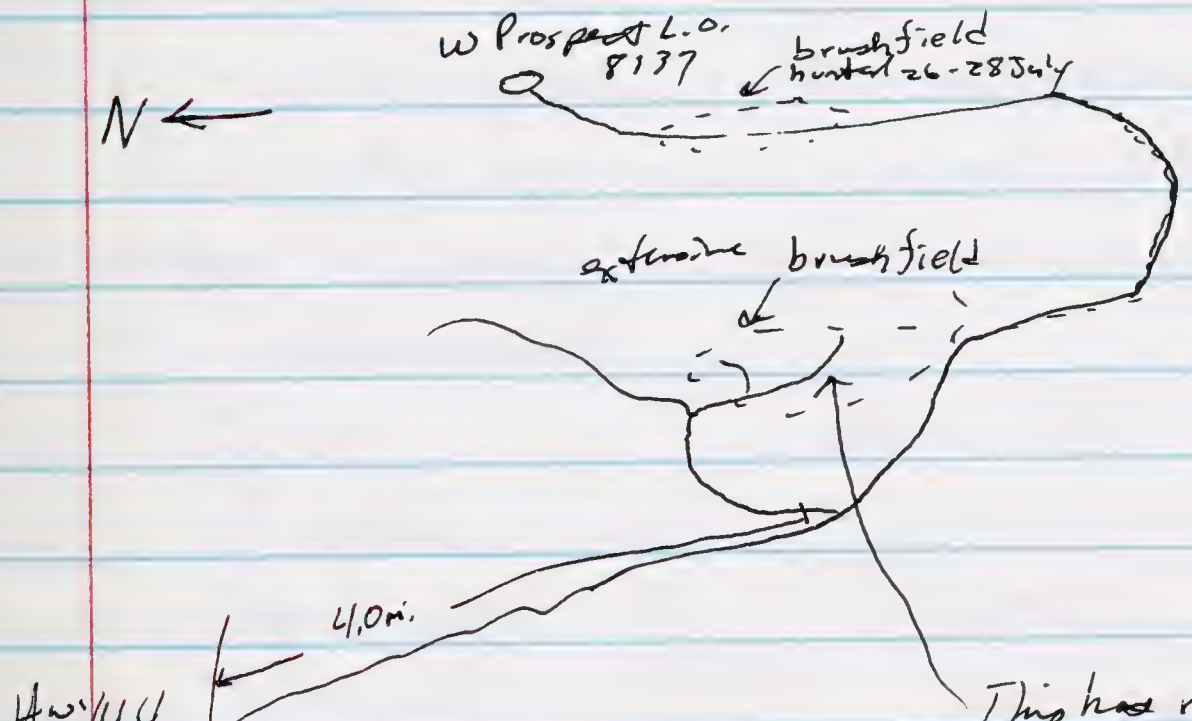
6½ mi. W 7 mi. E Lassen Peak 7606 Shasta Co. Calif.

28 July cont few birds moving or calling. Did see a hawk (prob. Accipiter carrying something. Was surprising to find so few birds, & got the impression that my 2 days of squealing may now alert birds rather than attract.

Checked some of trees & Ponderosa & Pine Red & White manzanita dominant shrub

Fir, Sitka Spruce, & the red & needled pine.

29 July 0600 Drove to lower, extensive brushfield



This has rows of stacked soil & brush & the new brush (mostly manzanita is 2'-4' & permeated w/ deer trails, so it's easy to walk. Also found young (2'-15") Jeffrey Pine.

Hunted 0700-0900 & got 7 Fox Sp. Saw/heard: Quail (?), Steller's Jay, Nuthatch (W.B.), 2+ Ind. Chickadee, G.T. Towhee, Empidonax, 0, Sitfly. Worked on birds till 5:00 p.m. Hunted brushfield 6:30 p.m. to 9:00 p.m. Basically same (+ Steller's Jay) Collected Fox Sp.

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Lassen Peak area (Shasta Co. Calif.) to Yolla Bolla Mts., Trinity Co. Calif.

29 July — Drove to Redding + spent night along rd E of Oro.
30 July — Cont towards old locat of Linsdale (12 mi. W N Yolla Bolly Mt. Stopped at Harrison Gulch R.S. + got map + info from worker (Danielle Jerry) about brushfields. The old locat is very near the Harrison Gulch R.S. We went to a brushfield ½ mi. WNW of the old "McKinley City" but it was too low. Saw/heard: Kingfisher, 2+ Wrent-t, 2+ Scrub Jay, TV, R.t. Hawk, ~~Hairy~~ Orange-c. Warbler (Riparian) + B.G. Gnatcatcher (Riparian). Drove to Jones Bar, which is close to 4500'-4900' + found fx Sparrows fairly common. Coll. 4. Saw/heard:

T. V.	1	over hills
R. t. Hawk	2	" "
Mt. Quail	?	heard
Flicker	2+	tree, calls
Acorn Woodpker		" "
Mt. Chickadee	2+	woodland
Raven	3+	one
O. S. Fly	1	calling woodland
Empidonax	2+	brush
Junco	30+	all over hill, juvs.
Steller Jay	3+	woodland
Robin	1	"
W Bluebird	2	"
Nashville Warb	1+	brush
Yellow Warb.	3+	"
Fox Sp	6+	"

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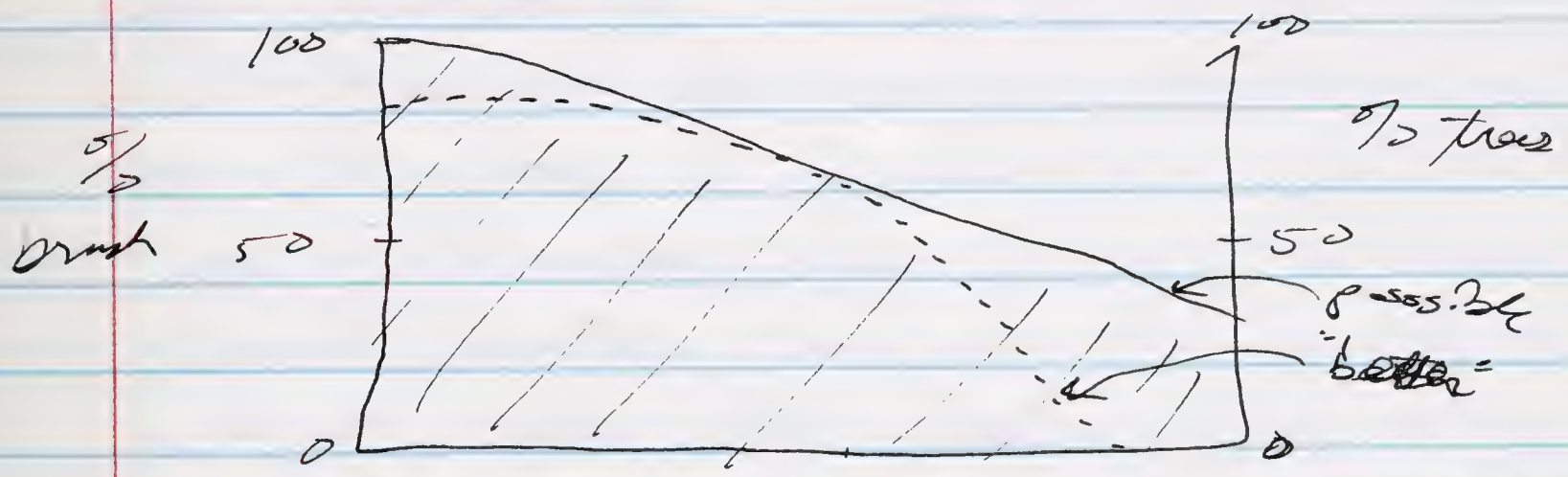
T. 28N, R. 11W, NW¼ Sec. 3,

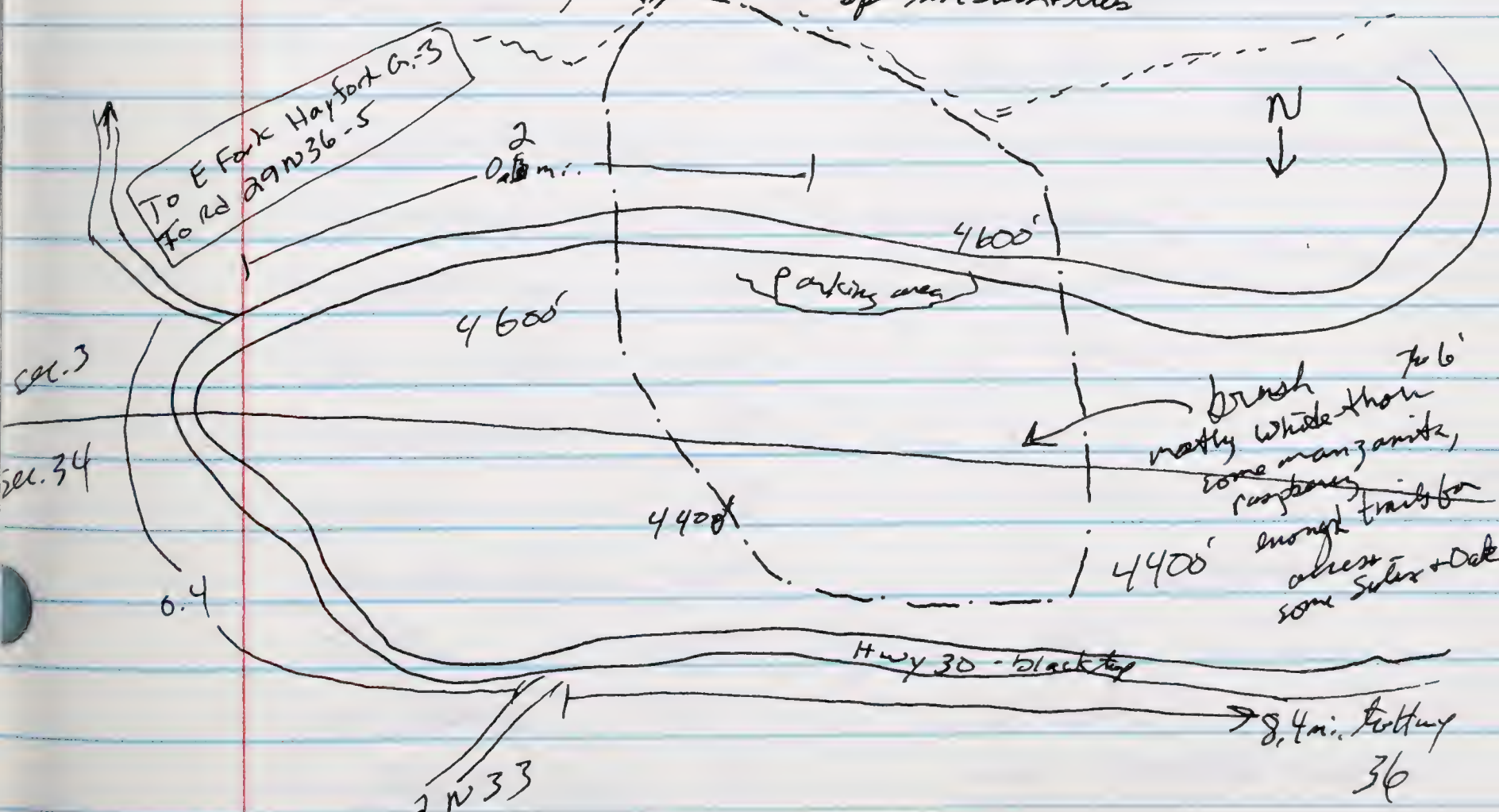
2 mi. W, 6 mi. W NW ¼ Alta Bally Mtn., Trinity Co. California 4400-4800'

30 July cont. This burn (August 1958) is presently a mosaic of open ground & varying mixtures of brush (Arctostaphylos patula, & various Ceanothus esp. white thorn), Raspberries & trees Oregon & Ponderosa Pine. The entire area is rather rolling. Perhaps index of Fx & Cg. Habitat:



Worked on birds at Basin Gulch Campground. Drove back to Jones Burn for night

31 July 0700-0930 clear, cool, sl. breezy. Coll. 5 Foxsp. This area is full of birds (eg. Junco, Foxsp, & a Campylorhynchus sp).



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T. 28N, R. 11W, NW¼ Sec. 3

8mi. N, 6mi. W of Ysella Bally mts., 4400'-4800', Trinity Co. Calif.

31 July cont. There is still considerable sign of the fire (Aug. 1958) as many charred trees remain + some dead standing timber + some live Ponderosa + Jeffrey Pine. The Whitethorn (Ceanothus) gets in patches to 6' high + is murder to walk through. [Also some Squaw Carpet (Ceanothus]. The Toms Burn took ~5000 acres + much was re-seeded by For. Service. Also some of the burn is too low for Fox Sparrows + some of the higher elev. (4200+) are devoid of brush, nonetheless there are often spots near where I collected that should be good for Fox Sp. Spent all day collecting again 1200-1300 - got 4 Fox Sp. + 1 Juv. Black-headed Grosbeak. Saw/heard

T. Vulture	1	over burn
R. t. Hawk	1	" "
Mt. Quail	10+	2+ broods
Flicker	5+	on ground in high spots
Sapsucker (Juv.)	1	in willows in small riparian area
Raven	5+	over head
Steller Jay	8+	trees in burn (incl. juvs?)
Br. Creeper	1+	" near ?1
Mt. Chickadee	2+	" " "
Robin	2+	brush
W. Bluebird	2+	" in trees
O.S. Fly	2+	calling "
G.T. Towhee	2+	brush
Finch (Cassin's)	4+	high (4800-4900') in brush

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T. 28N, R. 11W, NW¼ Sec. 3

8 mi. N, 6 mi. W N Yolla Bolly Mts., 4400'-4800', Trinity Co., Calif.

31 July cont. Chipping Sp. 10+ brush
Junco 2 ot " (lots juvs.)
Fox Sp. 15+ +/- lots juvs. brush
Nashville Warbler 15+ brush
Yellow " 10+ "
Wilson " (?) 2+ "
Returned to Berkeley.

20 Sept. Don Straney + I left MVZ ~ 10 a.p.m. + arrived at Swanson Mdw. Camped ~ 2:30 a.m.

S side of Shaver Lake, NW of Shaver Lake

21 Sept. 0700 at Swanson mdw (T. 10S, R. 25E, NE¼ sec. 6), clear cold (~ 50) + no breeze. Heard R. B. Nut., Mt. Chickadee. Drove to coll. local at T. 10S, R. 25E, W½ sec. 4 - spent from 0745 - 2.30 p.m. in area. It essentially a mosaic of exposed granite (some v. lge boulders) + large flat expanses of rock, patches of shrubs (manzanita + Ceanothus) range in size, height + density. Some Ribes + scattered patches of Quercus. Many cones of Pinus lambertiana on ground, + other conifers. Bird activity throughout day was spotty. Don wanted to collect Entomins + Spermophiles. Peak activity was ~ 8:30 a.m. - 10:00. Afternoon was quiet but not too warm. Many Scleroporus occidentalis were active mid day (coll. 1 = ♂ MVZ 8&9). Also coll. 1 Alligator lizard in wet grass - turned out to be ♀ ready to give birth. We got ("near born" (pickled) - Don ♀ caught on mid-leg

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21 Sept. (cont'd) S of Shaver Lake, Fresno Co., Calif.

Also got a scopia under fallen rotten log. & shot 2 Eutamias in one shot + shot at several Spermophilus.

Saw &/or heard:

♀ Accipiter striatus	1	over area
Flicker	1+	heard
? Hairy Woodpk	1	heard
Hummer - sp.?	1	flying around brush
R. B. Nuthatch	4-8	trees (conifers)
Mt. Chickadee	5+	scrub + trees
Bluebird (West.)	3	ground in scrub
Wil. Warb	2	sm. deciduous
Cassins Finch	4+	scrub & trees
Junco	15+	"
? Townsend Warb	1	sm decid patch
Warb Vireo	2	scrub
Yellow Warb	3+	"
Oporornis	1	"
Steller Jay	10+	conifers
Raven	3	over "
Mt. Quail	4	call 2 not cataloged
Zonotrichia ?	3	scrub woodland edge
see add. Passerella iliaca	8-10	scrub
Gr. t. towhee	1	"
R. s. towhee	1	" (heard)
Br. Creeper	1	tree

About 3 p.m. we went to Shaver Lake + called Warden (Coons), got campfire permit. At Shaver L. P.S., talked to Mike _____. he told us of

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21 Sept. cont. ~~NW side Shaw Lake Fresno Co, Calif.~~ a place he'd seen Fox Sp. today - went to this road ~ 6:00 pm (T.9S R.25E, S½ sec. 9) - Approx 6000 ft. & has lots of brush (manzanita, Ceanothus, Ribes) & assorted stand of conifers. Very little activity - Saw 2-3 Fox Sp., Steller's, Robin, Brn. Creeper (few Robins today), Hutt. Jay, Sapsucker, Evidences. The evening (6:00 pm to dark, ~ 7:00 pm) was very still, & little moving around. Camped T.9S, R.25E, SW¼ sec. 12.

22 Sept. Returned ~~to~~ area ¼ mi. E of Ely Ruins & hunted from 0900-1130. Fair amt. of movement. Coll. 6 Fox Sp. (but 1 & brought back alive escaped) + 1 Zonotrichia leucophrys. The morning seemed to be a peak activity period (0900-1030) & was cool, still & clear. There are good signal patches of manzanita (in bloom), white thorn, + a few Aspen/ Ceanothus w/ 1"-1½" dia., thistle-like seeds, Ribes & conifers & some oaks. Saw/heard:

Raven	3	overhead
Empidonax	1	in 6' brush
Yell. Warb	3	brush
RB Nuthatch	2+	trees
Brn. Towhee	2+	brush
Mt. Chickadee	4+	" , trees
Fox Sp.	6+	brush
Zonotrichia	5+	" (Adults)
Steller Jay	4+	

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NW Side Shaver Lake to Mt. Tom, Fresno Co, Calif.

22 Sept (cont'd) Drove to Sample Meadow (suggested (see notes May 1978) + on rd to Mt. Tom. Hunted same area as May 78, from 2:00p to 4:00p. Saw very little, collected 1 Eutamias speciosus + 1 ♂ Cassin's Finch, Saw + heard 0 Fox Sp. & think that Thrasher was perhaps too high or just too early for migrant P. rufa. Drove back to locality S of Shaver Lake + Don + I set 85 Sherman traps; also col. 3 Fox Sp. There was a fair amt. of activity towards dusk — many Fox Sp. calling; also R.B. Nuthatch, Steller Jay, P.S. Towhee.

[note - on route to Sample Mdw. + Mt. Tom stopped at Kaiser Peak meadow (T. 7S, R. 26E, E½ Sec. 22) + shot 2 Belding Ground Sqs. - there was a colony (~~xx~~ # unknown) in this meadow (which is ½ mi.²) - also found ½ Bufo + a sm. frog. The rd. from Hwy 91 to Sample Mdw is fairly good - goes over 8000' in some spots - some forest + grassy fields + rocks - little brush]

23 Sept. (At Shaver Lake) - 0630 cool, clear still, Opening of deer season - wear yellow or red. Checked traps (Rm 2 3/9, DOS 4/65) all Peromyscus - most of the traps were set near fallen logs or in manzanita - Some mice + caught a mouse at base of oak tree in manzanita clump. Then + hunted Fox Sp. for 1½ hrs - till 11. The apparent start of a.m.

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S of Shaver Lake Fresno Co. Calif. - Hume, Fresno Co, Calif.

23Sept (cont) avian activity was ~0800 - R.B. Nuthatch, Stellar Jay, Mt. Chickadee Junco. However, w/ only a few spp. around it's hard to discern if there is a definite peak in activity. Did find 15-20 Fox sparrows, R.S. Towhee, Cassins Finch, Band-tailed Pigeon, Yellow Warbler. Drove to Shaver L. for b'fast then headed to Hume - via Tollhouse, Sanger, Centerville, then through Kings Canyon Nat. Park. Drove to Hume L. + a Forest ser. person told me I could find brushfields (5800'+) + not to stop at Bearskin Meadow (T. 13S, R. 28E, S½ sec. 26 + N½ sec. 35) but there seemed to be many more roads than on the map + we didn't find much in the way of brushfields. We drove down rd to Bearskin Grove (+ perhaps missed rd to Bearskin Mdw) - about 3 mi. in I shot a Dameicornis douglasi out of a 70ft. spruce. We drove on + returned to near Huckleberry Mdw (T. 13S, R. 28E, N½ sec. 28) + camped. In a "brushfield" we set 85 shermans. The area is an old burn as many charred logs remain - manzanita (≤3ft.), Ceanothus, some Chinquapin, sm. conifers + cedars. Heard Downy Woodpecker, Robin, 2+ Fox Sp., Junco, Wren?, Raven, 3-4 Crossbills.

24Sept. RM2 1/9, DOS 2/65 - all Peromyscus, it's hard to believe the pops are so low, perhaps it's too high too late or? About 0800 noted that bird activity seemed to pick up. Saw 2 Sharp-shins - one

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Hume, Fresno Co, Calif.

24 Sept (cont'd) adult + 1 imm. Both were very interested in my squeaking + the adult flew upon 10 ft. of my head. Also saw / heard: 3+ White-headed Woodpkr., 1 Hairy Woodpkr, Robins, RB Nuth., Mt. Chick., 3 Fox Sp. (2 ♂♂ singing).

Then drove back through Kings Canyon Natl. Pk. to Cherry Gap (elev. 6892 ft.) + took rd to left (NW) to T. 13S, R 28E, E½ sec. 18. Mostly brush w/ some young conifers; is the site of an old burn. The topography is rolling + fairly steep in places. many Lg boulders. Coll. 4 Fox Sp., 1 R.S. Towhee + 3 Euphagus. This would be an excellent local for breeding Fox Sp. - coll 1 singing ♂ + heard 2-3 others. Lots of small flies + Hemipterans flying about (& lots of Dendroica coronata audoboni hawking them). Lots of Robins in flocks in Salix + very restless - often flying about calling. Saw Empidonax (prob. difficilis) in 6'-8' Salix, 2-3 Town. Sol., 10-20 Junco, 10-20 Zonotrichia leucophrys, 5-8 Stellar Jay, 20 Cedar Waxwings, R.C. Kinglet, Yell. Warbler.

½ mi S, 2½ mi W Bald Mtn, 5400 ft, Fresno Co, Calif.

27 Oct. Drove to above locality from Berkeley w/ Dick Lawton, Bob Leich, Pat. Stranes, Doug Arrived 1:30 a.m.

28 Oct. Spent most of day collecting + prep. Fox Sparrows.

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½ mi. S, 2½ mi. W Bald Mtn., 5400 ft. (Shaver Lake) Fresno Co. California

28 Oct. (cont'd.) Temp ~ 35 at 0600, got to 75 by 1030 + dropped again fairly early afternoon. Skies clear + little or no breeze. Coll. 7 Fox Sparrows today (see 27 & 28 Oct. accts.). This is my 3rd trip to this locality + a precise description of the habitat is elusive. There are substantial areas of level rock + large boulders. Patches of fairly homogeneous brush (Manzanita + Ceanothus) grade in to woodland settings on rock. Some small but fairly homogeneous stands of trees - Sugar Pine, cedar (other conifers), some scattered Oak. All this (+ more) results in a rather heterogeneous complex. To give a precise characterization of the habitat is difficult - other than to say it's a mosaic. This assemblage of micro-habitats & micro-factors is undoubtedly important to the existence of many species - despite that this area is not homogeneous montane chaparral. The Forest Service should recognize the importance of this type of habitat.

A fair deal of bird activity, today - although there seemed to be a peak at 0800-0900. Bird activity on cool a.m.'s seem to coincide w/ sun hitting the brush. Also I was out afield the entire day. There did seem to be a lull in activity on mid day

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½ mi. S, 2½ mi. W Bald Mtn., Yosemite Free to, California

280 ct. (est.)

Sun/heard:

White-headed Woodpecker	3+	Area (conifers)
Flicker	2+	" "
Unid. Woodpecker	1	Hairy?
Ruby-cr. Kinglet	10+	scrub
Golden-cr. Sparrow	20+	"
Juncos	10+	"
White-cr. Sparrow	20+	"
Fox Sparrow	20+	"
Rufous-sided Towhee	2+ (8)	"
Yellow-rumped Warbler	20+	Tree + edge scrub
Dr. B. Nuthatch	3+	Area
Brn. Creeper	?	"
Steller Jay	8	all over
Band-tailed Pigeon	17	- flock flew toward Shamblake at 1600
Robin	2	Area
Mt. Quail	35	didn't see - but flushed from stand of pines
Mt. Chickadee	5+	scrub + woodland
W. St. Bluebird	10+	tall trees

Eutamias sp. 5-10 scrub + woodland
Sperm. beecheyi 2 rocks
Tamiasciurus 2 heard
Lander Truck + Dix
Didn't see any Sclerop. or Gaz.

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28 Oct (cont'd). ½ mi S, 2½ mi W Bald Mtn, 5400 ft, Fresno Co, California
but Dong found 2 Fence Lizards under logs

29 Oct. Headed a.m. for Fox Sparrows, coll. 3 + 1 Zonotrichia. Bob Sibe coll. 1 Fox Sp. Saw most of same species as yesterday, except for an a.m. mixed flock of ~5-8 Mt. Chickadees + 5-10 Golden + Ruby-crowned Kinglets + 2 Brn. Creeper. There was a fairly noticeable drop in general activity in late a.m. Departed for MVZ ~3:45 p.m.

Zinke, R. M.

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Calif.

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Los Padres Nat. Forest, Monterey Co. Calif

27 Jan. Bob Timm + I left Berkeley 8:30. Intended to coll. wintering Fox sparrows. Went to Arroyo Seco Cmpd's (w of Soledad) via rds 617+16, Intended to drive rd (Seco) through forest but rd. was closed. At/near Arroyo Seco: 5 scrub Jays, 30+ White-throated Swifts, 1 Dendroica coronata ssp?, 1 Accipiter striatus (prob. ♂), 4 Kestrels, Bl. Phoebe, 2 R. t. hawks, 5 Yell-b. Magpies, ~~3 mallards~~ 4 Widgeon, on Lake at Arroyo Seco: 20 Coots, 1 Goldeneye, 2 P. b. grebes, Anna Hummer, 2 Green Herons. Then drove to Hastings + asked John Davis where we could find B. bilineata. He said he'd only trapped 1 to date, down from usual #'s. On his advice we went to Jamesburg + attempted to drive to Chews Ridge, however icy roads forced our return to Hastings. Then went to spot 2 mi. N + 2½ mi. E Chews Ridge on private land of employer of Hastings. Area consists of hills, w grassy oak woodland + more densely vegetated riparian woods. Was cold + cloudy. Both + Hendel for 1½ hrs. Very quiet - saw/heard: 15 Juncos, 10 Golden-crowned, 1 R. tailed Hawk, 1 Kestrel 3-4 Plain titmouse 15 Bushtit, 1 Townsend Warbler (near stream w flock of bushtits), 30+ crows, 10 Yell-b. magpies, 1 ♀ Goldfinch, 1 Thrush?, 10 Calif. Quail, 1 Jackrabbit, prob. Neotoma houses along creek. Spent night at Hastings.

28 Jan Snow on ground at 0600 + snowing. Departed for coast at 0700. Along rd.: 2(♂+♀) Wst. Bluebird,

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Hastings Reservation, Monterey Co, Calif. to coast, between Big Sur + Carmel

28 Jan 1979) 15 Junco, 5 Cassin's Finch, 4 Kestrel, 2 R.T. Hawks, 15 Gold.-c. Sparrow, 20 crows, 8 Y.b. magpies, 10 Scrub Jays, 3 Acorn Woodpkr., Flicka, 5 Scrub Jays. There was snow to ~1,500'. As we got lower + towards Carmel, saw 1 Red-shouldered Hawk + ~6 R.T. Hawks. In Carmel saw 15 Mew Gull, 5 Calif.. At Coast at Carmel R. saw: 3 Herring Gull, 2 Western, 3 cormorant sp., 10 Calif. Gull. Drove S on Hwy 1. + saw ~10 Kestrel, 5-6 R.T. Hawk (2 prs.), 1 or Western Meadow (fide RMT), Gold.-c. Sparrow. Took Palo Colorado Rd. to Bottchers Gap (elev. 2000'), where rd. was closed by Forest Service. Walked down rd. (to Pico Blanco Scout Camp) - habitat mixture of deciduous oak-basswood (?), some chaparral (chamise, little Arctostaphylos) + some groves of Redwoods. Saw: 10 Bushtit, 3 Acorn Woodpkr., 1 Hermit Thrush, 12 Band-tailed Pigeon, 5 Junco. Some of the areas seemed likely to have P. iliaca, especially w oak leaf litter + brush, but saw 0. Yesterday John Davis mentioned that he'd only caught 1 Fox Sp. to date (in Nov. 78), where usually he'd have 25 + that the 1 bird was a gray-headed (i.e. Sierra) form. Walt Koenig said he'd caught 1 (in Nov. 78) + that it was brown (i.e. Unalaschensis group).

At 12:00 noon, we returned to Hwy 1 +

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coast S of Monterey, Monterey Co, Calif, to Berkeley

28 Jan. (cont) drove to Berkely (via 101). Saw several (~10) R. t. Hawks + ca many kestrels + meadowlarks. At Emeryville mudflats: Whimbrel, 20 Avocets, 100 Dowitchers, 100 Dunlin, 3 Bl-b. Plover, 3 Killdeer, 1 Marbled Godwit, 5 R.N. Grebe, 4 West. Grebe, + ducks/not counted: Am. Goldeneye, Ruddy, Scaup, Canvasback, Surf Scoter,). Saw no Loons + few Scoters. Returned MVZ at 1700.

Mendocino Nat. Forest – MVZ to under. campgrnd. at Lake Co, Calif. 1020m, T.17N, R.9W, SW¼ sec. 31

31 March Left MVZ 1330 + headed N on Hwy 101, + cut E on Hwy 175 to Lakeport (on Clear Lake), where I called James Branston (warden) + informed his wife I'd be collecting in area. The road from Hopland to Lakeport (Hwy 175) crosses thru several sizeable areas of chaparral (private land). Stopped + squeaked 3 x but only got 2 Scrub Jays. Saw 20-30 Turkey Vultures from Berkeley to Lakeport. From Lakeport drove N to Upper Lake, then W on rd 1 No. 2. The rd. ascends through open pasture, chaparral + mixed stands of forest. Stopped in several likely looking chaparral stands but only saw 1 Ruby-cr Kinglet, 2 Bluebirds (? West.), 5 Robins, 3 Steller Jays, many Wrentits. Got to an unmarked campground + hunted a sizable patch of chaparral. Saw: 4 Gold-cr. Sparrow, 5+ Wrentits, 1 Fox Sparrow, 10-15 Band-tailed Pigeons, heard 2 or 3 1 Kestrel + 15+ Red-Tails

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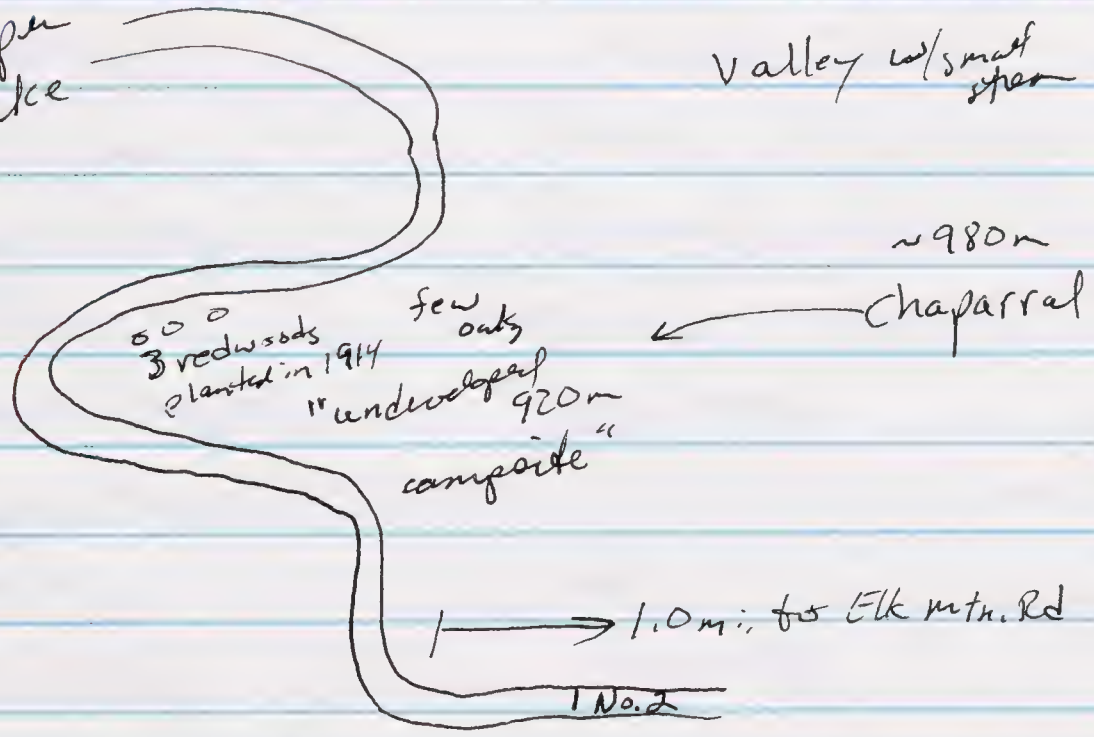
Mendocino National Forest, 2 mi. S, 1¼ mi. E Poges Pk. Lake Co., Calif. [T. 17N, R. 9W, SW¼ sec. 31] 1020m

31 March — Gr.-Horned Owls + one probable Screech Owl. See 1 April for further description of area.

1 April — Up 0545. Set 2 nets in chaparral. This area consists of hilly terrain, often steep to mountainous. The vegetation is chaparral, chaparral + oaks + other small trees, or stands of coniferous forest. The chaparral consists of Manzanita (1'-8') (35-40%), Ceanothus <10%, Boraginaceae 40%, + ?. Cold a.m. (≤ 40°F) & warmed



to ~68°F. By 2100 p.m. there was a cloud bank coming in from NE. Lots of bird activity early but trailed off. Drove ~3-4 mi. N on No. 2 + took two side roads. Some nice stands of chaparral in pockets (+ ravines) as the area N of Elk Mtn. was burned some time ago. Played Pacific Fox Sparrow tape at some likely spots but got no response (see locality of one manzanita patch for Hermit Thrush 4 April 1979). Returned to morning site + prepared nets. Again, never did see 4-5 Fox Sp. - got 2 in one shot, but only saw one

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[T. 17N, R. 9W, SW¼ Sec. 31]

Mendocino Nat'l. Forest, 2 mi. & 1¼ mi. E Bogas Pk. Lake Co, Calif. 1020m

1 April

other individual. Caught a Wrentit ♂ & Anna Hummer in nets, + / Orange-cr. Warbler. Tried to hunt canyon in p.m. but too steep. Saw1 Fox Sp. (missed). Went to top of hill above camp. Thought I heard a Glaucidium so I started whistling - got 4-6 Wrentits, 2 Bewick wrs, 2 Cal. Thrashers, Closed nets ~ 6:00 p.m.

Species	#	Habitat	Remarks
TV	4-6	overchaparral	
Red-tail	1 (Ad)	" "	
Coopers	1	see spp. acct.	
Cal. Quail	3-4	heard in chaparral	
Anna Hummer	4-6	chaparral (caught 1 ♀ in net)	
Flicker	2	dead tree in chaparral (which is an old burn site)	
Acorn Woodpkr	4	flying over	
Purple Martin	~4	" " - perhaps near tall dead/burnt tree	
Raven	3-4	soaring overhead (1 w/ a TV)	
Scrub Jay	3-4	chaparral	
Chickadee (?, Mt.)	1	" edge of conif. forest	
Wrentit	10+	"	
W.B. Nuthatch	2	tall (dead?) oaks in chaparral	
Bewicks Wrn	2+	chaparral (came in v. close when Pygmy Owl call given)	
Calif. Thrasher	4+	" "	
Robin, W. Bluebird	1, 3-5	overhead dead trees & chaparral	
Orn-cr. Warbler	1-2	1 heard early am., 1 in net	
Finch (Horn, Cassin's)	2-3	singing from dead tree	
Pygmy Owl	3-6	calling, singing	
Golden-cr. Kinglet	4-6	brush	

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{T. 17 N, R. 9 W, SW¼ Sec. 31}

Mendocino Nat. Forest, 2 mi. S, 1¼ mi. E Poges Pk., 960 m, Lake Co., Calif.

1 April. Sage Sparrow (?) - 2-3 in chaparral
Loxia (?) 3 typ ~~dead~~ live redwood
Fox Sparrow 6-8 in brush
Brown Towhee 2+ " "
Spermophilus beecheyi 4 open area in chaparral

West. Fence Lizard 2 under logs
No. (?) Alligator " 1 " "
Frog (Rub. mtn./alt.-legged) several calling
Tree frog (?) " "

Berkeley → Mt. Pinos (*Kern, Ventura Co., Calif.)

23 May Left Berkeley ~1100 & drove S on I 5. Saw many Cliff Swallow nests under overpasses, especially 50 mi N & 15 mi S of Kettleman City. Turned West on Hwy 166 & drove to Maricopa. Then S on 166/33 to Rd going E towards Frazier Park. Then took rd. 9N03 (to NE). Passes through low dry chaparral - open scrub. Saw 4 Mockingbirds, 3 Snakes, 5 Valley Quail. Rd. ascends through pines to Lockwood Valley. Turned W on Lk. of the Woods to Mt. Pinos. Flushed Caprimulgid on rd at Stoyan at ~ 7000'.

Mt. Pinos, Ventura Co., Calif.

24 May Drove to end of pavement where a sign says 3 mi. to summit Mt. Pinos. Spent 0700-0740 recording for Sparrows. Very easy to approach & record. 5 pairs nested

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24 May (cont'd) Mt. Pinos, Kern Co., Calif. [T9N, R21W, SW¼ Sec. 33]
day wandering around. The area is predominantly open pine w/ scattered patches of brush (Ceanothus). There are some creeks + considerable slopes in places although generally quite traversable. Some rocky outcrops. There's considerable range in age of the pines - some very old + young. Finch # & large talus trees. Also for interspersed, Set 2 shot nets out at 1680 + caught 1 Fox Sparrow. Still snow (in patches) in woods.

25 May Up @ 0630. Cold + clear + as yesterday, very windy. Set out down road towards "Condor Lookout". Again open pine w/ some brush + dense stands of young pine. About ¾ m. E Mt. Pinos there are several large brush patches. Coll. 9 Fox Sparrows + returned to car + shot 1 more. On net (at brush - stand of young pine) caught 1 ♂ Junco, 1 ♂ Pygmy Nuthatch, 1 ♂ Finch (photographed) + 1 ♂ (no brood patch) Saw-like ♂. Out - released all. Moved to Forest Serv. Campground. Returned to nets in evening - caught 1 Fox Sp. Spent ~1 hr. looking for nests.

26 May Tried today to ① record ② photo + examine birds + nests ② Key tree. Fox Little luck trying to photo Fox Sp. - seems that they're a bit spooky & it hard to approach singing ♂♂ (for vocal. exp.). Rid 2 Forest Serv. curious of this a.m. Saw Jon Atwell (UCLA) on trail.

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[T. 9N, R. 21W, SW¼ sec. 33]

1¼ mi. E Mt. Pinos, Kern Co. Calif

27 May — Hunted early a.m. + coll. 5 Fox Sp. Did 2 more chaparral censuses. Departed for KVZ ~ 11:00 a.m. Added to list of ~~yr~~ last few days: Pine Siskin.

Berkeley to Lake Isabella, Kern Co. Calif.

12 June — Larry M. Conroy + I departed Berkeley ~ 3:00 p.m. + drove S on Hwy 5, E on Hwy 46, continued E on ~~99~~?) Was to Glenville, then E on 155 to Cedar Cr. Campgrnd (T. 25S, R. 32E, NW¼ sec. 19) where we spend night. On Hwy 5, ~10 mi. N of Jxn. w/ 46 saw 1 Bl.-necked Stilt along drainage culvert, on Hwy 46 between Famoso + Glenville saw 1 White-t. Kite, 1 Short-eared Owl + 1 family (3 or 4) of Burrowing Owls, 1 Bubo virginianus.

~8 mi. E of Glenville, Kern Co. Calif.

13 June — Drove to site 2 mi. E Red Rdtn. (see catalog) when a burned over spot ~~xisted~~, + coll. 7 Fox Sparrows. The dominant plant is Elderberry 1-3 m (Sambucus mexicana) 35-75%, ~10% bare ground / many dead fallen logs / many standing snags, Gooseberry Ribes - ≤10%, some grass, some live mess Ceanothus, some Phacelia sp., + misc. ground cover. Surprisingly there was no manzanita or Ceanothus. The surrounding conifer community (+ a few Black Oak Quercus) is comprised of Libocedrus decurrens + few young Pines ~~Abies concolor~~ + Jeffrey Pine (~~P. ponderosa~~?). We hunted until 0930 + then went to Rhyno campground to work on specimens. Returned to morning spot in P.M. + walked around further - there seem to be few

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Birds Seen Vicinity of Mt. Pinos 24-26 May 1979

Species	#	days seen	Habitat	Remarks
R. t. Hawk	1 ad.	26th	tall dead tree - open pine forest	
Saw-whet owl	1 ad	25th	1 netted near small grove of 12'-5' Ponderosa Pines	
Mt. Quail	~5	24-26	brushy areas. calling quite frequently	
Band-tail. Pigeon	10	24, 26	flying over forest in tall Ponderosa Pine	
Unid. hummer (? Anna?)	2	24, 26	brush	
Whi-br. head. Woodpk.	4	24-26	open ponderosa forest	
Common Flicker	4	"	" " "	
Hairy Woodpk.	2	25, 26	" " "	
West. Wood Pewee	10-15	24-Dec	fairly common in open forest	
Empidonax	1	25	prob. Dusky - did flick tail	
V. C. Swallow	20+	24-26	common perching/etc open forest	
Steller Jay	10+	"	" " "	
Clarks Nutcrake	2	25-26	tall trees bordering " "	
Mt. Chickadee	10+	24-26	forest (see sp. acct)	
Pygmy Nuthatch	5+	"	" "	
Robin	10+	"	open "	
West. Bluebird	10+	"	" " "	
Yell-rump. Warb.	10	"	" "	
Brn-h. Cowbird	5-10	"	" " - along small streams	
Cassin Finch	20+	"	" "	
Lawrence Goldfinch	1	24	" "	
Green-t. Towhee	10	24-26	brush	
Junco	20+	"	" (see sp. acct)	
Chipping Sp.	15+	"	" + forest	
Fox Sparrow	25+	"	"	

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2 mi E Red Mtn., Kern Co. Calif.

13 June — large patches of brush. Drove opposite direction (S) to (coll. RMZ 951 - see catalog) look for more Fox Sp. localities. There are some recent burns + logging ~~sites~~ & roads a few Arctostaphylos - but v. few Passerella iliaca.

List of birds seen 2 mi E of Red Mtn., Kern Co.

Sp.	#	Habitat	Remarks
Mt. Quail	2-3	Elderberry "chaparral"	calling a.m. + p.m.
B. t. Pigeon	2-3	one head	edge of forest
Mourning dove	4+	" "	" "
Gr. H. Owl	2	[Rhyms Campground p.m.]	
unid. hummer	1	Elderberry	quick look & miz
West. wood Pewee	6-10	forest + dense tall Elderberry	calling all day
Empidonax sp.		forest edge	"
Olive-s. Fly	3+	" "	"
Viol.-gr. Swall.	2	over chaparral	
Steller Jay	5+	forest + over "	
Mt. Chickadee	5+	chaparral snags + forest edge - carrying food	
Red-br. Nuthatch	4	snags + forest - see sp. acct	
Robin	4+	forest edge	
West. Bluebird	2+	" " + snags	
Mtn. Bluebird	2+	" " " (2 mc)	
Mac Gill. Warb.	2	Elderberry	
Bull. Oriole!	2	Rhyms Campground (2 mc)	
West. Tan.	4+	forest edge	
Bl. he. Grosbeak	4+	" " + snags	
Lazuli Bunt.	1♂	Elderberry	

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2 mi. E Red Mtn., Kern Co. Calif.

13 June
Cassin Finch 7+ open forest, snags, forest edge, singing
G.-t. Towhee 6+ Elderberry - singing ♂♂ (+ ♀♀)
Ore. Junco 15+ " - " ", young
Chip. Sp. 5+ " " ", young fledging
Fox Sp. 12+ " "

14 June
Up ~0700 + drove to site 2 mi. E Red Mtn. Did 4 forest sem. transects. Then drove S toward Davis Campgrnd. There is a large burned over area (25,000 acres) which burned in 1971. There are many standing + fallen dead trees + scattered singles + groups of live Jeffrey Pine, White Fir + Black Oak + Incense Cedar. The Forest Service (fide 2 workers) planted grass immediately after the fire to prevent soil erosion. But the grass outcompetes Jeffrey Pine seedlings so they haven't been able to replant. The Elderberry comes in fast + the Abies concolor comes under it - so no pines can make it either way. Thus, the USFS has eliminated a large expanse of potential "chaparral" type habitat. We were advised that past Evans Flat the road descended below 5000' so we reversed course + went north towards Rhyms Camp (on per. camp). It decided to take a small road which cut off behind camp + we found, to our surprise, some of the ligneous elderberry Ribes + Fosserella! From driving around today, we sighted some nest birds, incl.:

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1-5 mi. S & 1-2 mi. E Redding, Shasta Co. Calif.

4 June	Sp	#	Place	Habitat
	Golden Eagle	1	T.26S, R.3E	sec of. occ
	Red-t. Hawk	2	"	old burn w/ snags
	Kestrel	2	"	
	Poorwill	2	" sec. 12	on rd. near stand of Incense cedar
	Sharp-shinned Hawk	1	" " sec. 12	over old burn
	Mourning Dove	10	" " sec. 12	" "
	Flicker	4	" " sec. 12	" "
	Hairy	4	" "	almost in every
	Red-b. Sapsucker	1	" 3E sec. 25 (Evans Flat)	see catalog
	Whitish, Woodpecker		" " sec. 12	old burn
	Western Wood Pewee		" " sec. 25	"
	Ol. Sided Fly.		" " sec. 25	"
	Empidonax		Evans Flat	"
	Vio.-Grn Swallow		sec. 12	"
	Raven	5	"	"
	Steller Jay	5	"	"
	Mt. Chickadee	4	"	sec of. occ
	R.B. Nut	2	"	old burn
	Brn. Creeper	2	"	"
	Robin	4	"	"
	Townsend Solitaire		sec. 25	forest edge
	West Blue	4	sec. 12	"
	Mt. Blue	2	sec 25	
	Macg. Warb.	4	sec. 12	old burn
	Brn. h. Cowbird	20	sec. 12 + 25	
	West. Tan	6	sec. 12	forest edge

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In: S of I-2 in: E Red Rock, Kern Co, Calif.

14 June — G.t. Towhee 6 — sec. 12 — old burn

Bl-h Gros 4 " "

Chip. Sp. 4 " "

Junco 50 " "

Lawrences Gold. 6 — sec. 25 — open forest

Lesser " 6 — sec. 12 — old burn

Lark Sparrow 4 — sec. 12+25 " "

Bl.-th. Gray Warb. ?1 — sec 25 — open mixed forest

Thrashers 1+sign — sec. 12

Eu Arrow Spermophilus beechyi — sec. 12

Odocoileus 4 "

burid. bat + Sclerophorus

15 June — Coll. 3 Fox Sp. in a.m. at T. 26S, R. 31E, NE¼ sec. 12 — 1971 burn. This is part of same burn. Many snags - standing + fallen. Chaparral is predominantly Elderberry w/ some Ribes. The area is reached by taking rd. behind Rhyns Campground which goes along a ridge. Took trail + headed to Lk. Isabella for gas + supplies. At Lake Isabella, saw 10-15 California Gull + a few Phalacrocorax. Returned on Hwy. 155 to Tiger Flat Campground (T. 25S, R. 32E, SW¼ sec. 5) + spent late afternoon + p.m. [At Isabella - several campgrounds, some w/ cold showers. At town of Lk. Isabella there are stores + gas stations.]

16 June — Departed Tiger Flat + went N through pine-fir-incense cedar forest above 5500'. Went to Johnsondale - but mostly deserted as the lumber Co. pulled out. Afternoon: N of Tiger Flat ran into some nice typical montane chaparral of manzanita Ceanothus + dwf w/ forest on ridges. Note - this appears

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16 June

Tiger Flat Campground to Aspen meadow, Sequoia + Tulare Co., Calif.
to be an area of transition from elderberry to manzanita
+ Ceanothus. This area could be an inspt. one if the coll. of
Fox Sp. from around Red Mtn. ≠ Aspen meadows,
two areas of diff. plant spp. +25 mi. apart. Went to Aspen
meadow station + asked ranger about chaparral. Showed
us sites along Forest Serv. Rd 21S50 where a tornado went
through in 1964 + there were subsequent logging + burning
activities. We drove this rd. - lots of small patches only a
few extensive ones. We camped at end of small logging
road + hiked from here. Activity was extremely low in
mid afternoon + was poor in evening also. There is the
usual mosaic of habitats + microhabitats - wet meadow,
forest (pine, fir) + interspersed patches of brush - mainly
chinquapin (Castanopsis sempervirens) but w/ Ribes +
Arctostaphylos, some Ceanothus + other ground plants. Sp.
list for 16 + morning of 17th:

Sp.	#	Habitat	Remarks
B.-b. Pigeon (?) Calliope Hummer	3-4 (1 ♂)	over brush brush	(col. 1, 2 other display ♂♂)
White-h. Woodpecker	4	forest edge + open forest	(2 nests - dead snags)
Williamson Sapsucker	3	" "	
Hairy Woodpecker	4	" "	
Empidonax pusillus oberholseri	6	brush w/ standing dead snags, open forest	brush 4
West. Wood Pewee	1	open forest	
Olive-s. Flycatcher	3	" "	
Steller Jay	6	" "	
Raven	4	" "	
Mt. Chickadee	6	" ", brush w/ snags	

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16 June — near Aspen Meadows, 2400m, Tulare Co, Calif

White-br. Nuthatch	4	open forest
Red-br. "	4+	" "
Robin	10	" ", meadow, brush
Town. Solitaire	4	brush w/ stand. dead snags
Hermit Thrush	4+	forest + open forest near brush
Mt. Bluebird	2	[seen carrying food in bill
		→ open brush w/ standing snags
Golden Cr. Kinglet		
Yellow Warb	2	brush
MacGill. Warb (?)		"
Wilson Warb	1 ♂	"
Audubon Warb	4+	open forest
Western Tanager	6+	" " + edge
Cassin Finch	6	" " "
Lawrence Goldfinch	4	brush w/ snags
Pine Siskin	4	open forest
Green-tailed Towhee	6	edge, occ.
Fox Sp.	15+	brush

(T. 20S, R. 32E, E½ Sec. 20)

17 June — Spent a.m. hunting for Fox Sp. + saw very few + coll. only 2. In general, there seems to be a very low density. I thought perhaps it was ① too early - but coll. F w/ food in bill ② by 9 a.m. + past ③ too much singing + ④ birds very shy. We had trouble getting even individuals + they seemed very shy. Drove to lower spot on Quaking Aspen Rd. (T. 21S, R. 32E, W½ Sec. 9). There was a lot of bird activity, even at 1:00 p.m. It is a

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4 mi. N Dome Rock 2225m, Tulare Co, Calif.

17 June — cold, windy + overcast day. At 7000 ft. the fog is so thick it is essentially raining. There is the usual amt. of dust.

18 June — Noticed left rear tire v. low so went around in a.m. trying to find a Fast Serv. dodge vehicle, as our rented Dodge (Fox Sq.) van has NO jack! Returned ~ 1130 + Larry rd coll. 4 birds. One was fairly lively so we returned to camp + did karyotype (RMZ 980) preparation. In evening, walked further down road + found a fairly open section w/ Prunus 25%, Ribes +, Arctostaphylos +, Ceanothus +, Castanopsis =15%, 5 & 5% open ground w/ lupin, 10% young pine, sage + rocks & boulders. We did some forest serv. transects there. The general area is again a mosaic of pine-fir forest + open areas w/ brush, some meadows (Lincoln Square RMZ-983). Weather again cold + cloudy.

19 June — Tried to record Fox Sp. in early a.m. w/ moderate success. Returned + set nets + worked on birds. In evening drove out road to "Needles Lookout".

List of birds afternoon 17th – 19th June

	#	Habitat	Remarks
Mountain Quail	2+	brush - calling	
Calliope Hummer	4+ ♂♂+♀♀	"	
Flicker	1	stand of 60' fir	
Red-b. Sapsucker	4	open forest + forest edge	
Will. "	4	" " " "	
White-headed Woodp.	6	" ", snags in open areas	
Dusky Flycatcher	8	brush	
West. Wood P	6	forest edge + snags in brush	
Olive-sided Fly	4	" " " "	

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4 mi. N Dome Rock, 2225 m, Tulare Co., Calif.

17-19 June (cont'd)

Steller Jay	4+	open forest + forest
Raven	2+?	overhead
Mo. Chickadee	6+	brush - one nest in snag
Wh.-br. Nuthatch	4	forest + edge
Red-br. "	4	" "
Robin	4	brushfields, meadows
Town. Solitaire	4	" " w/ sage, forest edge
Hermit Thrush	4	calling from forest
Mount. Bluebird	4	incl. 1 fledgling brood - nest in 3' burned snag in brush
Gold.-cr. Kinglet	2+	heard open forest
Yellow Warb.	4+	brush (& w/ pool) & high in fir in open fir forest
Audubon Warb.	2	open forest + edge
MacGill. Warb.	4	brushfields
Wilson's Warb.	2	Salix at meadow
Br.-hd Cowbird	1 ♂	heard on 19th
West. Tan.	6	w/ fledglings - open forest + edge
Lazuli Bunt.	1	♂ singing brushfield on 19th
Cassin's Finch	4+	overhead
Pine Siskin	4+	(high) forest edge
Grn.-t. Towhee	6	brush
Dark-eyed Junco	6	"
Chipping Sp.	4	1 carrying food on 19th
Lincoln Sp.	2	- met meadow w/ Salix stand (♂ coll. = RM 2 983)
Fox Sp.	30	V. common in brush (See sp. acct)

20 June — Drove to Porterville to get tire fixed, supplies & check w/ US Forest Service as to whether we could

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20 June — En Route, N of Dome Rock to vicinity of Hume (Tulare Co. → Fresno Co.)
collect in the small section of Sequoia Nat. Forest, which is sandwiched between Nat'l. Pk's. (near Mineral King's P.S.). However, I was informed at District Station in Porterville that that section is now part of the Nat. Parks. Some drove through Sequoia Nat'l Pk. to the Forest above the park. Stopped at the Gen. Sherman Tree ("world's largest organism"). Camped at Stony Creek Campground + did a kangatype. At camp - several Brown-headed Cowbirds.

21 June — Drove to Buck Rock L.O. There's some fairly good areas of montane chaparral. Tried hunting for ambulst got 0. Drove on to Big Meadows Guard Station + were told that a good sized patch of montane chaparral existed at T.13S, R.29E, > W½ sec. 36, just below Horse Corral Creek. I visited the spot - very close manzanita + Ceanothus + in fact a bit too hard to work in (coll. 1 Fox Sp.). There's a U.S.F.S. camp along Horse Corral Cr. at T.13S, R.29E, SW¼ sec. 34. From there, we drove towards Lookout Pk. Found a good patch of chaparral (comm. 40% Ribes, 10-20% manzanita + Ceanothus + rest open or snags + boulders), & spent p.m. + coll. Passerella + set 2 nets. Returned later (10:00 p.m.) + had 3 Cassin Finch in nets. Camped at USFS camp along Horse Corral Cr.

22 June — Returned to spot - coll. 7 Fox Sp. + netted 0 - did not check Towhee + 2 Juncos. Returned to camp + worked on specimens. Returned in evening to nets - had 1 Fox Sp. (which later escaped!) + coll. 2 others.

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Horse Corral Cr. & vicinity, 22°-2350m, Fresno Co, Calif.

23 June — Tried clear spot (see catalog) for Fox Sp. This area has brush patches some sizeable, but there are also many pine & pine-scattered to fairly dense plus lots of large rocks. Went to get gas, & stopped at likely brushfield & coll. 5 birds.

The following list is for 21-23 June & for the localities given in my catalog:

Sp.	#	Habitat	Remarks
Red-t. Hawk	1 ad.	in brushfield	Dark
M. Quail	6	"	
Band-t. Pig.	2	over brush - perched tall trees - forest edge	
Poorwill	1	night 22 on road along brush	
White-th. Swift	1 ad	Buck Rock Lookout 21 June	
Calliope Hummer	6	brush, & & display dive display	
Flicker	4	open forest, swags of brush edge & in brush	
White-h. Woodpk.	4-5	" " " " "	
Red-b. Sapsucker	3	open forest	
W. Kingbird	2	ponderosa pine border open forest - brush	
Hairy Woodpkr	4	- swags in brush - prob. nest	
Dusky Fly	6-12	- incl. nest w/ 4 stg young, pairs, Flatlodge	
Willow Fly?	1	willow patch - didn't get	
Western Wdpewee	4	open forest - brush edge + swags	
Olive-s. Fly	3	" "	
Steller Jay	4-6	" " " "	
Raven	4	over forest -	
Mt. Chickadee	10	brush w/ swags + open forest	
Dipper	1	Boulder Creek on 23 June	

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"Horse Corral Meadow" 2200m, Fresno Co, Calif.

21-24 June (cont.)

White-br. Nuthatch	4	open forest
Red-br. Nuthatch	3	" " + brush-edge
Brown Creeper	2	" "
Robin	4	open brush + grass, forest edge
Town. Sol.	2	" " " "
Hermit Thrush	6	singing in forest, stream edge
Mt. Bluebird	4	brush + snags
Gold-cr. Kinglet	2-4	forest + edge
Warbling Vireo	2	stream edge
Yellow Warbler	4	brush + forest
Yellow-rumped Warbler	8-12+	open forest + brush
Wilson Warbler	4	brush + willow patch
Brewer Blackbird	4-8	50+ at Big Meadow - ind. 1 w/ white outer tail feathers
Brown-h. Cowbird	2-4	open meadow
West. Tan.	10+	" "
Cassin's Finch	6+	open forest + forest edge
		brush - seem to come in at dusk to roost in brush
Gm-t. Towhee	20+	brush
Junco	10+	"
Chipping Sparrow	2	"
Linnet	2	willow
Fox	50	brush.

The forests are comprised of ml. old pine, red fir, white fir. See catalog for location of brushfields. The willow patch is in T. 13S R 30E SW¼ sec. 21 - ~½ mi. W + ½ mi. S Lookout Pt. Departed for Shaverlake ~ 12:30.

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"Shaver Lake" ½ mi. S, 2½ mi. W Bald Mtn. 5400 ft. Fresno Co. Calif.
[T. 10S, R. 25E, N½ sec. 4]

24 June — Drove through clouds for supplies & headed up to Shaver Lake. Drove past a rather notable "Table Mtn.", on way to Shaver. Camped at Swanson Meadow.

25-28 June — Spent these days trying to net, record & photograph Fox Sparrows. I have worked this area previously (June, Sept. & Oct. 78). As usual, the habitat is rather a mosaic. There are forests of pine (Sugar & Ponderosa + Jeffrey - some old & young), fir & Incense Cedar, plus a fair number of oaks (from short saplings to mature trees). The brush patches consist of manzanita & Ceanothus spp. (incl. leucoderma), Ribes, There are some large areas of open rock - on often crumbly appearing granite - in fact there were patches of brush on only 3-4 inches of "soil" - in fact insufficient soil to put net poles in. There are some fairly dense & extensive brush patches, but in general its occurrence is spotty. The weather was generally warm w/ some cloudy afternoons & I suspect the lower elevation (~5500') & the amount of deciduous vegetation (i.e. Quercus) accounts for the occurrence of things like Rufous-sided Towhees & House Wrens, Orange-c. Warblers. Drove to Dinkey Creek on 26th. There is a fair bit of brush between our camp & Dinkey Creek. Returned to MVZ on 28 June.

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Birds Seen Vicinity of Shaver Lake, Fresno Co. Calif.

25-28 June

Red-tailed Hawk	2+	Over open forest + brush (dark backed adults)
Sharp-shinned Hawk	1 prob. ♀	went through forest + brush
Mountain Quail	3+	heard in brushy areas.
Band-t. Pigeon	2+	overhead
Mourning Dove	1	morning of 28th - open forest + brush
Common Nighthawk	6	active both day + night (evening) - see sp. acct.
[illegible] Swift	2-3	caprescia - Black Swift ? RMZ
Anna's Hummer	1	brush
Colaptes cafer	2+	open forest
Red-b. Sapsucker	3	" "
Hairy Woodpecker	2+	forest
White-headed Woodpr.	4	"
Dusky Flycatcher	10+	brush + open woodland - netted several
Western Wood Pewee	6-8	open forest + forest edge
Olive-sided Fly. ?		" "
Steller Jay	10	" "
Vgt. Swallow	5	over meadow
Barn Swallow	5	Shaver Lake town
Common Raven	4	over forest,
Mountain Chickadee	10	open forest + brush
White-br. Nuthatch	6	" "
Red-br. Nuthatch.	4	" "
House Wren	2	" " + brush
Robin	10	" " (incl. singing ♂♂)
Hermit Thrush	8-10	forest + edge
Mountain Bluebird	4	open - brush + snags
Golden-c. Kinglet	10+	" "
Ruby-c. "	2?	forest
Solitary Vireo	2	
Warbling "	4+	(one call.) - singing ♂♂ - open forest + oaks
Orange-c. Warbler	2+	open forest
Yellow Warbler	10+	" " + brush
		" " " "

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Shaver Lake (cont.)

25-28 June

Audubon Warbler	4-6 (♀♀+young)	open forest
Hermit "	4+	forest (& foraging base of willow in meadow, etc)
MacGill.	4-8	brush (incl. singing ♂♂)
Wilson Warbler	2	open forest - willow/meadow edge
Brewer Blackbird	20	meadows
Brown-headed Cowbird	15+	"
Western Tanager	5-10	open forest
Black-headed Grosbeak	5+	brush
Cassin Finch	1-6	open forest
Green-tailed Towhee	6-10	brush
Rufous-sided Towhee	4-6	"
Oregon Junco	5-10	open forest, brush
Chipping Sparrow	5	" " "
Fox Sparrow	30+	brush

add Turkey Vulture ~4500 ft. just S of Shaver Lake

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Journal

MVZ to White Mtns., California

2 July — Larry Conroy + I departed Berkeley for the White Mtns, to collect Passerella iliaca canescens. We drove E on Hwy 120. Was one of the most spectacular scenery days I've had. Drove through Yosemite + were awed by the geological sights (numerous cirques), Nd. the glacial lakes (=tarns), moraines. Saw ~20 California Gulls on the Lakes Tioga 9200ft. At Tuolumne Meadows, saw 100+ Brewer Blackbird, but little else. Stopped at Tioga Pass + talked to some people working w/ Paul Sherman. Continued on E slope, past Mono Lake, to Bishop, where I notified the F+G Dept. that I would be collecting in White Mtns. + Mono Lk. area. Saw 3 dead Black-billed Magpie 2 mi S of Bishop + a F Marsh Hawk ~5 mi. S. We were informed by Forest Service that the road up Silver Canyon was 4-wheel drive only, so we drove S toward Big Pine + got the (paved) road that leads W towards "Ancient Bristlecone" area. The scenery from this road is fantastic - the rd. climbs to 10,000ft. The eastern escarpment of the Sierra Nevada is truly impressive. The Whites, at least from Big Pine W, are dominated by sagebrush, low elevations, Pinyon-Juniper at mid to high, w/ Limber + Bristlecone at higher elevations. At 8-10,000', saw 2 Kestrel, 10 Mt. Bluebird, Mt. Chickadee. We got to the Wyman Cr. road + it too said for 4-wheel drive vehicles. So, not seeing anything to this point that looked like Willow thickets (5 mi. S of Big Prospector Mdw. - another Passerella site), we headed down, from ~9000' into Wyman Canyon. The road is quite rough + you need high

R.M. Zink
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Journal

Wyman Creek to Roberts Ranch, ~9000+ ft, Inyo Co, Calif.

2 July (cont) clearance at the very last. We got to the base of the canyon + were very discouraged. After the rough descent there was no water + no willows in sight. At a brushy spot in the creek bed (Acanthus sp.), squeaked out a Black-th. Gray Warbler, 2 Juncos + 2+ Green-tailed Towhees (Engelmann). We continued on (past closed but unlocked gate) + finally found a small, isolated patch of 10'-20' dense willows (Salix sp.). & coll. 2 P. i. canescens + saw/2 nice Gr.-H. Warb. We continued on to "Roberts Ranch", which consists presently of 3 abandoned buildings on S side of road + a cabin on the N. The cabin is apparently operated by a college in Big Springs + a handwritten sign says you're welcome, if you leave it as you found it. We made camp just E of Roberts Ranch (on road). Heard Fox + Song Sparrows.

3 July Up ~0700. We headed out to check the willow clumps for Fox Sparrows. There is only 1 good sized patch of willows + many scattered plants. The main patch (essentially at Roberts Ranch) also marks the beginning of permanent water flow from a spring. The patch of willows is dense, ≤5m + has Rose (Rosa) + nettles interspersed. The patch is ~ 20 x 20m. We were not discouraged because only (Fox Sp. was seen (Rnt 1040) + the other patches of willow were apparently too small to support any. There were a # of dead willows in the middle of the creek bed just E of Roberts Ranch - suggesting that the amount of willow has decreased. There are signs of cattle grazing. The valley has Rosa, Acanthus + lots of tall grass. The canyon

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Wyman Cr, 8100-7420ft, Inyo Co, Calif.

3 July (cont) walls are steep, + partially covered by sagebrush + some pinyon + juniper + shades of Cambrian + pre-Cambrian meta sedimentary rock fragments (talus slopes). There was a stiff breeze in the afternoon + was mostly sunny. So, at least presently, Roberts Ranch (= RR) marks the 1st occurrence of willows, as you go E in Wyman Canyon. Because of the low density of Fox Sp, we packed up ~4:30 p.m. + headed down road (E), + the road does descend. We stopped at the next sizeable willow patch (RM2, 1044) but could only find 1 Fox Sp. This willow growth has been seriously affected by cattle - they browse on the leaves, especially of young plants. Also, there are resultant paths through the thicket. We continued on to the next large patch (see catalog for local of RM2 1045-6) + camped here. For bird spp. seen, see separate list. The surprising thing was the abundance of song sparrows, which outnumbered Fox considerably. (see catalog local of)

4 July Up 0600 - sun not yet in canyon, fairly cool + fair # of birds moving. Hunted willow grove + got 2 Fox Sp. + saw 3 others. Coll. a Dipper on way back to camp. Found a beaver home w/ 3 separate pools. Spent rest of a.m. working on birds. Very windy in afternoon. About 1130 a group of 85+ Pinyon Jays descended canyon near our camp (see sp. acct.). We worked the willows again 530 pm to 6530 + only heard 2 Fox Sp. Returned to camp + packed up. Went (in continued) further down Wyman Cr. There were several patches of

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Wyman Creek, , Inyo Co, Calif.

4 July (cont'd) willow + Dusk. 3 Fox Sp. (plus an accidental Song Sparrow). The road is crossed by the stream in several places + this could spell trouble during storms +/or early spring - also the road is rather rough. At the point where the canyon narrows, the willows become sparser + in smaller clumps. + "pishal" at most of them + got a response. The road leaves Wyman Cr. + ascends through the sagebrush, giving a spectacular view of the Sierra Nevada + several Mt. ranges in the Great Basin, + Owens Valley. We got to Hwy 168 after dark + camped a few miles N of this junction.

Indian Creek, , Esmeralda Co, Nev.

5 July First went to Big Pine for gas + supplies. Saw many (20+) Bl.-throated Sparrows, 4 Rock Wrens, 2 Loggerhead Shrike, 6 Chipping Sparrows on route from Deep Springs to Big Pine + return (+ 10 Horned Larks). Stopped at Dyer to top off gas + headed in on E slope of White Mts to Indian Creek. Went to Post Meadow, where there is a fair deal of willow + alder. Spent ~2 hrs at mid day hunting for Fox Sp. but saw/heard 0. Would have attributed this partially to time of day. However, Larry talked to 2 Forest Service biologists who were returning from a 10 day backpacking trip to study Big Horn Sheep + he said he had seen them only Fox Sparrow in Indian Creek Canyon, but that there were many in Trail Canyon. So, we packed up + headed for Trail

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Wyman Creek + Canyon, 8100ft to , Inyo Co, Calif.

RR = Roberts Ranch
ER = East of Roberts Ranch, in Wyman Canyon (to RMZ #1057 - see catalog)

3-4 July

Turkey Vulture	1	over top of Wyman Canyon (RR)
Red-t. Hawk	1 ad.	" " " " + sides of canyon (ER)
Broad-tailed Hummer	10-15+	willow + canyon sides
Common Flicker	2-3	" " "
Empidonax sp.	10-15	" . Found nest in Rock, 3 white eggs - perhaps 2 spp. RR + ER
Viol. green Swallow	50+	in canyon along Wyman Cr. (RR)
Steller Jay	3	in willows + canyon sides
Scrub Jay	1-2	canyon side (dif. brown back)
Pinyon Jay	85+	canyon slopes on 4th (see spp. accts). (ER)
Clark Nutcracker	5	" " + willow edge
Mt. Chickadee	4	willow thickets (RR + ER SR)
Common Bushtit	4	" " (ER)
Nuthatch?		RMZ on 3rd (RR)
Dipper	1	RMZ 1049 (ER)
House Wren	5+	willows
Bewick's Wren	10	" + canyon side (still more numerous than T. aedon in willow) (RR + ER)
Robin	5-10	willow + canyon sides
Solitary Vireo?	1	a.m. of 2nd RMZ - canyon side in Juniper (RR)
Warbling Vireo	5-8	willows RR - ER
Orange-c. Warbler	3-4	" (RR)
Yellow Warbler?	1	" RMZ - heard only (ER)
Bl-th. Gray Warb.?		" (RR)
MacGill. Warb.	20+	" V. common, often chasing, very aggressive to flycatching (RR-ER)
Red-wing Blackbird	10	RR - in willows
Brewer Blackbird	20+	meadow (RR-ER)
Brown Cowbird	5	"
Bl-h. Grosbeak	1	willow on 3rd - RMZ
Lazuli Bunting	1+	possibly most of 4th, ER
Cassin Finch	3+	meadow

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Wyman Cr. + Canyon, 8000 ft to
3-4 July
Inyo Co, Calif.

Green-t Towhee 10+

Rufous-sided Towhee 2

White-crown Sparrow 1

Fox Sparrow ~20

Song Sparrow 35+

sagebrush + Rose + young Salix ER & RR
(incl. Blodg Dog)

willows (RR) canyon side 3 July Rnt 2-sight

RR (Rnt 2 # 1043)

RR - ER - seem to drop out at lower elev. (where canyon narrowest)

V. common in meadow + willow

Anna
Costa Columbia on 4th - on Wyman Cr - 3 sig. Roots w/ 3 down

✓ = impt. or endemic to willows

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Trail Canyon, 9000-9400ft, Esmeralda Co, Nevada

5 July. At Anderson Cr., saw 10 MacGill. Warbs, 1 ♂ Bl-th. Gray Warbler, 10 Song Sparrow, 0 Fox Sp. The willows seem to be younger

The road to Trail Canyon is poor + has several cut-offs, so you must be sure to watch mag closely. We camped at the end of a jeep trail (see catalog for exact locality), where there is fairly continuous willow, alder + waterbirch along Trail Creek. We hunted up canyon + got 1 Fox Sp. + saw 1 other.

6 July. In a.m. + p.m. walked essentially to head of canyon, at about 9600 ft. There is an extensive patch ($\frac{3}{4}$ mi. × $\frac{1}{4}$ mi.) of willow, birch + alder - bordered by sage covered hillsides. The vegetation (willow etc.) is bet. 3-18 ft. + there are some dense thickets. There are several streams which meander along + obviously have changed course several x's. The area apparently burned fairly recently, but not long (I can't estimate). There are several areas of dead burnt willow + a good deal of burnt wood on ground. There is also a small stand of Mt. Mahagony. There are some high spots in the middle w/ sage as well as some boggy wet areas. There are active springs on the S side of the canyon + perhaps elsewhere. Larry + Beth noted this is diff. than Lyman Canyon. First it's higher by 1000-1500 ft (willows that is). Also the canyon sides are granite. The canyon is wider + more open in. There are much more extensive + denser stands of willow, Alder + Water birch (last two lacking from Lyman). + tall sagebrush (6' high easily)

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Trail Canyon, 8500-8300 ft, Esmeralda Co, Nevada

7 July (cont'd) This lends to a varied habitat of considerable heterogeneity & several birds not present at 9000-9400 ft.; like Or.-c. Warbler, Rufous s. Towhee, Audubon Warbler. We set 2 nets.

8 July Up 0630 + did For/Sen. transect & tried to record Fox Sp. - but didn't hear a single ♂. Spent most of day indoors working on yesterday's specimens. In evening took a walk + collected 1 bird. It clouded up + sprinkled ~ 8:15 p.m.

9 July Up 0630 + did forest sen. transect. Welded 2 Hermit Thrushes & Lincoln's Sparrow in net across Trail Cr. Very little Fox Sp. activity. Was going to key type the 9 nets netted last night but it screened up royally + shorted out the battery while connecting the cables for nets. Waited ~ 3 hrs. but still wouldn't turn over. A USFS truck came + saved the day (actually gave me a lift to a mercury mine & a mine came back + gave us a jump. The Forest Sen. person, Brian Miller, told us that the Hwy used to be diverted to a mine the town of Candelaria - but neither is extant, hence there is more than flowing down Trail Canyon & Miller explains the recent deep cuts the stream(s) are making. He also mentioned that there's ahead of 250

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List of Birds Trail Canyon 9000-9600 ft, Esmeralda Co, Nevada

p.m. 5th to noon 7th July

Turkey Vulture	1-2	over canyon
Red-tail	1, 2+ ad.	" " (2 chasing Eagle)
Golden Eagle	1 (6th)	" " chased by 2 Red-tails (-see SR. sect)
Am. Kestrel	2+	canyon sides
Sage Grouse	3-5+!	at 9600' in willows (young eating willow leaves & prob. adults also. We heard low booming-like sounds coming from willows + canyon sides at dusk - also a clucking sounds (poss. Chukar?)
Com. Nighthawk	2	- at 0900 on 6th over canyon
Broad-tailed Hummer	15 ? - see RM2 1064	- willows + Rosa
Com. Flicker	1-2	" , canyon sides on ~~Limber~~ Limber Pine
Sapsucker sp.	-	sign of past feeding on Mt. Mahogany
Myiarchus a Jay Phoebe	-	over willows
Empidonax	- 4-6	- willows, sagebrush see RM 2 1062
Steller Jay	4	- in willows
Scrub "	2	- "
Pinyon Jays	- sm. flock	- heard on canyon sides
Clark Nutcracker	6	- canyon sides in Pinyon & Limber Pine
Mtn. Chickadee	4	- willows & Mt. Mahogany - note -
House Wren	6	" , rocks at base of lg. limber Pine
Robin	8	- "
Mt. Bluebird	1	- imm. ♂ on 7th a.m. in willows
Warbling Vireo	8	- willows, singing ♂♂
Mac Gill. Warbler	20	- " . v. common - readily responds to squeaking.
Brn-h. Cowbird	1	- ♀ on a.m. 7th in willows
Grn.-t. Towhee	20	- willows + canyon sides in Rosa + Sagebrush

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Birds of Trail Canyon, Esmeralda Co. Nevada (cont)

7 July (cont)

p.m. 5th to noon 7th July

Junco	6	- in willows, w/ fledglings
Brewer Sp.	10	- canyon sides, incl. fledglings
White-Cr. Sparrow	6	- willows w/ open boggy meadow
Fox Sparrow	15	- at most 4 ♂♂ singing one time (see sp. acct)
Song Sparrow	20	- willows. incl. 2 nests - (see sp. acct)

(journal cont) + Rock Wren - several singing from lg. rocks up canyon slope

In both places, many cattle have had their effect, by causing the meadows to turn into hummocks + numerous trails through willows (w/ destruction of undergrowth). There were birds absent from Trail (at this elevation) like Ruf.-s. Towhee, Lazuli Bunting, B. H. Grosbeak, + others (compare lists).

We drove down Trail Canyon w/ the idea of going to Chiatovich Cr. Ranch, only ¼ mi. E of camp, & heard a singing ♂ Fox Sp. We stopped & collected it. There is extensive willow growth along Trail Cr. & had (apparently) passed on the way up, that for Fox Sparrows, higher (elev.) is better. Well shit! On the next 2 hrs. I coll. 10 Fox Sp. in the willow growth (see catalog for local). Again, the valley is surrounded by Pinyon, Juniper + Sage. The burn mentioned previously is evident, w/ burnt stumps. Dead standing willow may be natural but I think the fire killed off a fair amount. There are some dense thickets of willow/alder+/birch (to 18') + some level areas w/ low willows, willow snags, Rosa, Ribes + nettles.

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Trail Canyon, 8300 ft, Elsenelda Co., Nevada

9 July (cont) feral horses loose in the immed. vicin. + that they are responsible for the messed up meadows - + not the range cattle. The meadow ecosystem is apparently quite fragile + the horses really muck it up - + the horses are protected by Federal law. The dominant theme is that these riparian areas along the E draining (+ prob. W) canyons/streams are essential to the vast majority of the White Mtn. avifauna + probably support the greatest diversity + biomass. Hence these areas deserve attention + protection from feral horses as well as range cattle (which do pollute the streams + do a bit of mucking up themselves). We departed ~ 2:30 p.m. w/ 2 live jays. Piñon + headed to Coaldale where we kept typed them. List of birds seen at 8250-8400 ft., Trail Canyon 7-9 July:

Turkey Vulture	2	over canyon
Cooper's Hawk	1-2	" " + in willows - one in willows apparently a imm.
Red-tail Hawk	2	canyon sides - saw one catch either a young rabbit a ground squirrel (?)
Sage Grouse	1	- remains of 1 bird
Com. Nighthawk	1	- canyon sides
Poorwill	1	RHE 1080, heard night of 7th
Mourning Dove	1	calling ♂ on 9th in willow/sage area
Broad-t. Hummer	10	mostly ♀♀ or imm., few ad. ♂♂
Empidonax	10	- poss 2 spp - sage + willows
Steller Jay	4	- willows

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7-9 July

Trail Canyon, 8250-8400 ft, Esmeralda Co., Nevada

Scrub Jay	4	willows + edges
Clark's Nutcracker	2+	canyon sides
Mt. Chickadee	2	open willows
House Wren	4	"
Robin	2	"
Raven	1	over canyon on 9th
Warbling Vireo	6	willows, incl. singing ♂
Mac. Gull. Warb.	15	willows, " "
Orange-cr. Warbler	4	"
Audubon Warb.	3	Incl. fledglings, open willows/snags
Brn.-h. Cowbird	6	over willows
Corn.-t. Towhee	4	willow/sage on Pinyon edge - not as common as higher elev.
Rufous-s. Towhee	4	willows
Junco	4	"
Cassin's F.	2+	incl. singing ♂
White-cr. Sp.	4	willows - open w/ snags (singing ♂♂)
Fox Sp.	10	"
Song Sparrow	12	"
Brewer's Sp.	2	canyon sides (1 carrying food - nest)
Rock Wren	4	Canyon "
W. Wood Pewee	1	willow - calling ♂
W. Tanager	2	willow/Pinyon edge (♂ singing)

Also the Forest Serv. has burned this canyon ~4 yrs. ago - to prevent spread of sage - it gets especially dense at willow/sage edge. I think that both the lower elev. + greater amt of habitat contribute to the addl. species. The finely open willow/willow snags were used

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9 July (cont'd) Trail Canyon, 8250-8400 ft., Esmeralda Co. Nevada
by Emp'd., W. Wood Pewee, And. Warb., W.C. Spurrowed Fox Sp.

We headed down canyon + on flat sagebrush, W.J. main Hwy, saw 4+ Sage Sparrow, 2 Horned Lark. Saw 1 DCR Burrowing Owl 12 mi. SW of Coaldale. At Coaldale saw 2+ Brewer domesticus + Horned Lark. There is a dry (at least today) alkaline marsh w/ remains of salt mine. Saw 1 Lesser Nighthawk, ca 5+ Sliver low over sagebrush at dusk (on Hwy 95, ~6 mi. N from Coaldale). Camped at Walker Lake.

Walker Lake (Mineral Co.) & Rest, Nevada

10 July At Walker Lake, 0615-0645:

Sandbars at N end of lake (where Walker R. enters)
- 130 White Pelican
- 130 Cormorant (Double-crested)
- 20+ Calif. Gulls
- 100 West. Grebes
- 2 Ruddy Duck
- ~10 Anas sp. - perhaps eclipse
- 2 Say Phoebe
- 4+ Gr. Blue Heron
- other unid. herons.

Continued on to some marshy areas, 5-10 mi. S of Fallon on Hwy 95 (former site of Carson Lk. (sink). Saw:

- 80+ White & Ibis
- 80 Bl-n. stilts
- 40 Avocet
- 2 Long-b. Curlew
- 2 Semipalmated Plover
- 10 Killdeer

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Walker L. & Reno, Nevada

10 July (cont.)

15 Forster Tern
100 Calif. Gull - int loafing field
100+ Yellow-h. Blackbird
4 Bobwhite Quail
2 Meadowlark
10 BC-b. Magpie
2 Robin
4 West. Kingbird.

At Reno, got 1 q. N2 + headed back for Benton. Stopped briefly at Mono Lake. Went E on Hwy 120 & took McGee Canyon road. Camped at local of RM 21083.

11 July I took car to Sawmill Mdw., looking for Fox Sp. habitat. There sage to 9000+ feet or so, but nowhere did I see mountain sage community that Hunt (in Linsdale 1928) speaks of. There lots of young Populus tremuloides which looks superficially like Artemisia tridentata but I doubt seriously if this could have confused Hunt. I took off on a spur to "Cow Can. Camp" (4 mi from Sawmill Mdw) + then continued on an unmarked logging rd. Eventually I came to a grade that was a bit too steep. I tried to back up but couldn't. I then tried several logging roads, hoping they'd connect up an escape. I then managed to get stuck at the bottom/end of a logging road. At this

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7-9 mi. W of Benton, 8400-9600 ft. Mono Co. Calif.

11 July (cont) found & realized that I had screwed up in the worst possible way. It took 1 hr. 20 min. to hike back to tent & tell Larry the news. & then hiked to Hwy. 120. This was a hike of 14 miles total. Fortunately (Sic) it was nearly all downhill. I hitched a ride into Benton w/ a (colorful native) guy who claims that he knows more about Puma than anyone in Calif. He claims there are 20 where there should normally be 1. & got the distinct impression that he still shoots them on sight, because (at least as a rationalization) "they are decimating the deer & cattle herds". He also confirmed the reports of long lines of semi-mill horses. At Benton, the Chevron dealer estimated $150.00 charge to pull me out. I scrounged around & got 2 guys w/ 4 wheel drive pickups & 150 ft. of cable, to drive me out. With both trucks pulling, they got me past both bad spots in the road. Their names were Elmer Chriso & Larry ——. Their generosity & willingness to help was sure appreciated. Gave them each $20.

12 July Coll. (Fox Sp. at camp (RM 2083). This area is a mixture of Populus & Pinus. In this area, incl. the area I drove yesterday above Sawmill Meadow, there are some rather extensive stands of Populus, incl. hillsides covered w/ young growth. There are a few of meadows also. Larry & I drove into Benton

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7-15 mi. W Benton, 7500-9000 ft, Mono Co, Calif

12 July (cont) for gas. At Black Lk - 20 Eared Grebe, 5 Coot, 1 yellow-h. blackbird, 5 Ruddy Duck. Still in pursuit of *P. i. monensis*, we drove down McGee Canyon & checked out sagebrush areas. We only found a few magpies. However d/c near Lindsdale (1928) & Hunt's birds in magpies original were at Woodfords & not 9 mi. W Benton! Holy shit - I was looking all day in wrong habitat. We did see a Swainson Hawk (see sp. acct). In the sagebrush chaparral, only saw 4 Gm-t. Towhee - 4 Brewer Sp.

13 July I drove to Sawmill Mdw. This time to look in wet areas, Populus for Fox Sparrows. At Sawmill mdw., there are few Populus. It looked iff this mdw. was wetter in times past. Saw family of Jays + several Red-b. Sapsucker. Returned to local of RMZ 1083 + hunted for the or - but it did not sing once in over 30 min.

11-13 July List of birds seen 7-15 mi. W Benton, 7500-9000 ft., Mono Co, Calif.

Red-t. Hawk	1	over Populus grove
Swainson "	1	- see sp. acct.
Kestrel	5	open sagebrush w/ some snags
owl sp. - heard LMC	1	
Hummingbird sp.	4	willows & Populus
Flicker	6+	open forest of " + conifers
Sphyrapicus	12+	V. common Populus. 2 nests b/ a) - 8' in 5' stump; b) - 5' in 15' stump } Populus forest

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7-15 air W Bonton, Mono Co., Calif.

11-13 July

Westwood fence	2	Populus
Empid. sp.	4	"
Eremophila alpestris	4+	ca 6000' sagebrush
Vicl. -gm Swallow	2	meadow
Steller Jay	4	forest
Clark Nutcracker	8	woodland
Mt. Chickadee	8	" , forest ind. family of 4
White-br. Nuthatch	2+	" " (w/ Pinus flexilis)
Brown Creeper	1	forest
House Wren	18+	low ~~forest~~ (Quaking Aspen) ind. 2 families 1-6 4+
Robin	4	meadows, forest edges
Town. Solitaire	1	forest edge
Hermit Thrush	6	forest (singing)
Mt. Bluebird	6	open savannah, sagebrush
Warb. Vireo	6	open stands
Orange-cr. Warbler	4	" "
Audubon "	4	" " " conifers
Brn.-h. Cowbird	2	~~female~~ " (pair)
West. Tanager	6	forest (1° coniferous)
Cassin Finch	8	"
Grn.-t. Towhee	12	open scrub, 1° sagebrush
Junco	12+	open forest, ind. 2 family groups, meadow edge
~~Chipping~~ Sparrow	1+	open forest
Brewer Sp.	2+?	open sage
Fox Sparrow	2	See spp. acct + RMZ 1083

R. M. Zink

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Mono Lake vicinity, Mono Co. Calif.

13 July

We then drove to Mono Lake, stopped + asked Dave Winkler where likely Fox Sp. locations would be. He suggested above Grant + / or Walker Lakes. We drove the Grant rd. + it's too developed. There are some patches of possible Fox Sp. brush above lake, but steep + basically unsuited. Another old locality is "Parker Cr., 7500 ft" - but today, there is no suitable habitat that is not in "Wilderness Area" + ∴ no shooting. We drove rood to Walker Lk. - there's a gate (locked) preventing you from getting nearer than ~ 2 mi. Frustrated, we then drove to Virginia Cr., a supposed Fox Sp. breeding site (Ridgway, 1939 in Condor - also cited by Gaines 1977 + Grinnell + Miller 1944). There were no suitable looking areas + the entire stream is basically one campsite, full of trailers. We returned to Walker Lk. + I walked to the shore of the lake but ~ ¼ mi. from it. The hillsides are brushy, being dominated by sage + some mahogany + what looks like a Ceanothus. I walked through some of this + saw 0 Fox Sp. - just Brn.-t. Towhees + Brewer Sparrows. We next went to Lee Vining, where we met David Gaines. He noted that Fox Sp. seem to be where there is some heterogeneity in terms of brush spp. Also Winkler said (earlier) that you ascend until you get Ceanothus. Gaines also thought the

R. M. Zink
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Lee Vining Canyon & Mono Lk. area, Mono Co., Calif.

13 July (cont.) birds where rather local & could think of no place we could collect. He did mention that the only place he sees them regularly was at vicinity of Hoppe Campground. We drove out & camped.

14 July Up 0530 & hiked brushfields across from Hoppe Camp. This area has lots of Prunus, Ceanothus & mahogany & pine. The brushy areas reminded me of west slope montane chaparral. Was sure a relief after spending yesterday in Artemisia & sagebrush, to find suitable habitat. In p.m. we drove further W on rd. through bottom of Lee Vining canyon & found another brushfield W of the Big Bend (USFS) campground. Hunted for awhile, but little activity & the mosquitoes were hungry.

bird list on separate page

15 July Returned to area of Rm 1097 & coll. 6 Fox Sp. The brush is dominated in places by dense, 4-6 ft. Prunus plus patches of sage & Ceanothus. There are some grassy rockslides & scattered pines, mahogany, fir & aspen (& some aspen & pine-fir forest). Returned to camp & worked on birds until 2 3:00 p.m. when we headed N for

R. M. Zink
1979

Bird List for the Virginia Canyon, Mono Co. Calif.

(not incl. birds of Mono Lake)

13-15 July

Calif. Gull	20	at garbage cans - Aspen Camp.
Mourning Dove	2	Aspen Camp.
Hummer (Selasphorus sp.)	5	brushy areas
Com. Flicker	4	woodlands + forest edge
Red-br. Sapsucker	8-10+	" " "
Empidonax (prob. Dusky)	10	brush
West Wood Pewee	5	forest
Vio.-grn Swallow	2	canyon
Steller Jay	5+	forest
Clark Nutcracker	5	canyon sides
Raven	2	" "
Mt. Chickadee	5+	forest, forest+brush
Dipper	1	at or along Aspen Camp.
White-br. Nuthatch	4	forest
House Wren	10	brush
Robin	8	forest + edge
Town. Solitaire	1	" "
Hermit Thrush	4	forest (head)
Warbling Vireo	6	open forest
Orange-c. Warbler	8+	brush
Audubon "	4	open forest
MacGill. Warb.	6+	brush
Brn-h. Cowbird	4+	over canyon
Wst. Tan	6	(open) forest + edge
Bl.-h. Grosbeak	2+	tall dense brush + aspen
Lzl. & Bunting	6	brush
Juncos	2-4	?

R. M. Zink
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13-15 July

Bird List (cont.)

Lee Vining Canyon

Brewer Sparrow	8	sage brush
White-crown Sparrow	4	brush/woodland
Fox Sparrow	~~8~~ 20	" (see sp. acct.)
Song Sp. ?	2	dense cover along stream

R, M, Zinke
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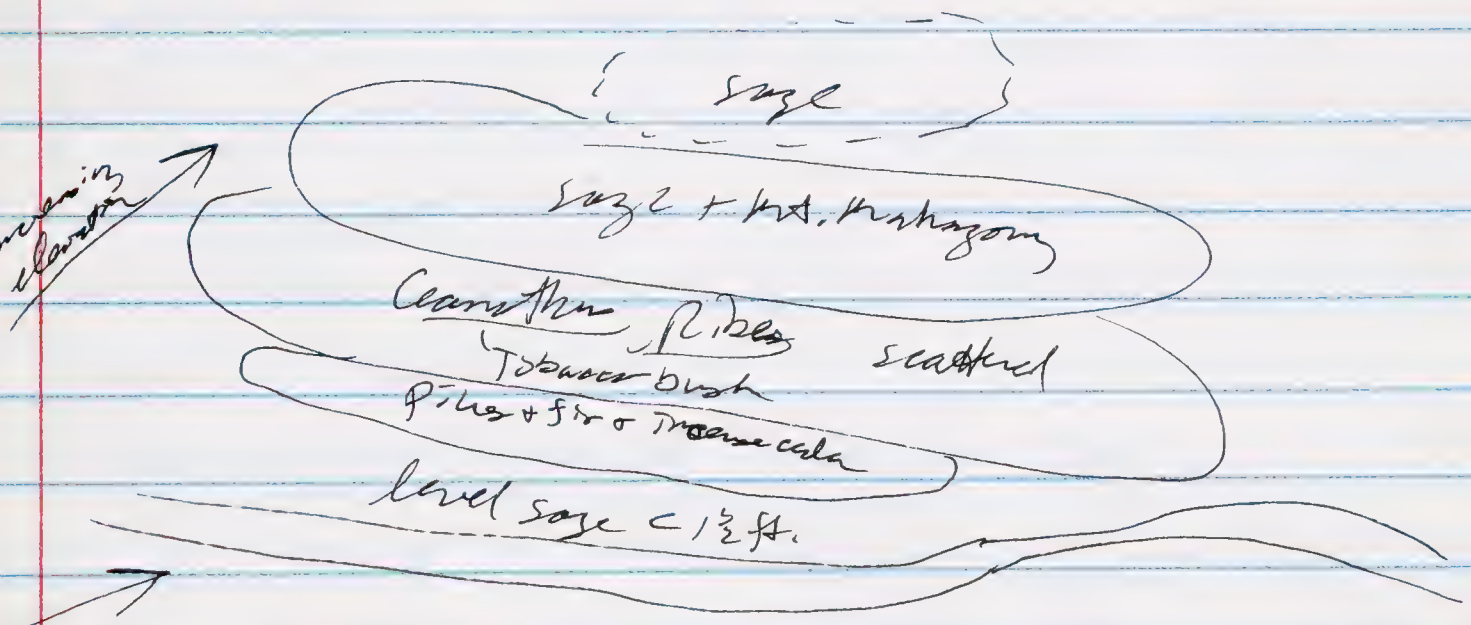
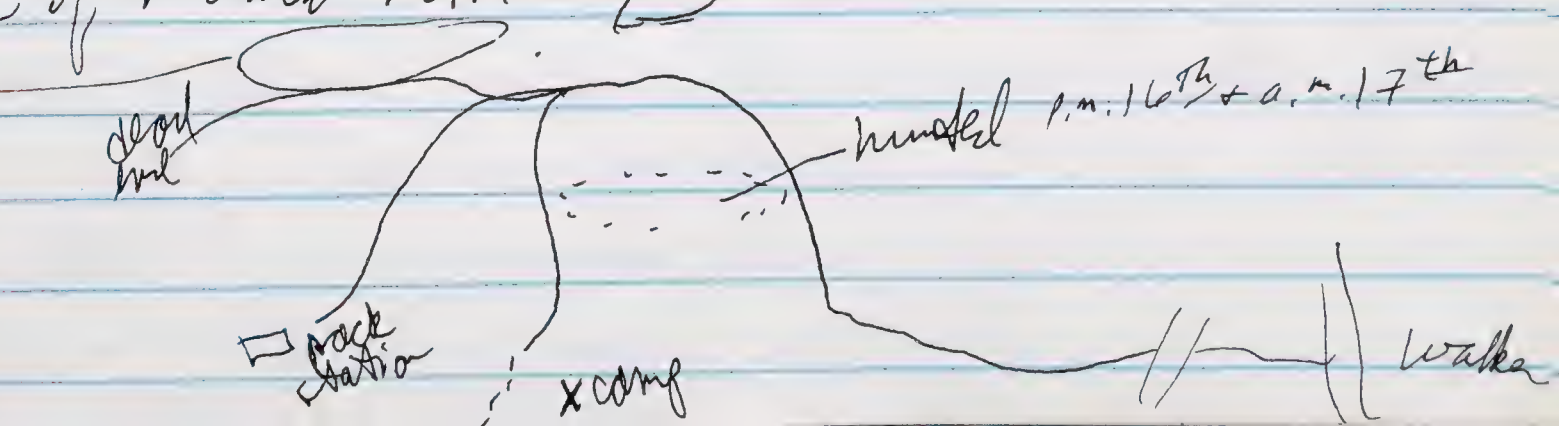
(T. 8N, R. 22E)

Mono Lk. to 3 mi. E Mineral Mtn., 8000-8200 ft, Alpine Co, Calif.

15 July cont Woodfords. We cut W on a rd. just outside of Walker + had a spectacular ride. Found some brushy areas but didn't find any Fox Sp. until we got to Pack Station, end of rd. Got 2 before quitting. Saw 1 Coyote on brushy hillside. The tops of several hills are brush covered + the main one I hunted looked ~:



16 July Hunted early a.m. + got 3 ♂ + 1 dun. I worked the area at of a hill w/ area of tobacco brush, Ribes + scattered Aspen + pine/fir (mostly fir). After taking tissues, went back to area on same hill which is covered w/ mt. Mahogany + call. 3 birds. In evening, hunted hill tops + brushy areas 4 mi. E of Mineral Mtn.



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1979

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3-4 mi. E Mineral Mtn., 8400 ft., Mono & Alpine Cos., Calif.

17 July

Hunted early a.m. on slope 4 mi. E Mineral Mtn. This area is a mixture of Tobacco brush, 4-12' M.A. Mahogany (getting to dense stands), Ribes, + scattered to grouped Pinus (prob. ponderosa). There are a fair # of rock outcrops + large boulders. It is interesting that there are almost mini-islands of brushy/woodland patches of habitat on hill tops, separated by relatively flat sage covered areas. As you descend, there are more trees + then back to sage/pasture. Bird list separate. Heard Coyotes + saw Neotoma as it ran past through pass. Saw Bobcat at noon near main Hwy - near stream.

Woodfords vicinity, Alpine Co., Calif.

We drove to S Lake Tahoe for supplies + returned to Crystal Springs campground. The R. Hunt coll. load for Passerella is Woodfords vicinity. Stopped at Indian Ca. Reservation for (free) hot shower - nice place.

18 July. Most the only suitable habitat is inconveniently located. E of Woodfords is some montane chaparral w/ manzanita - but on private land w/ new houses very close. S of Woodfords + to the W of the road there appears to be good habitat, but considerably private land. Also, at this time, the road from Woodfords to Markleeville is completely torn up + the 2 possible W-leading roads are not obvious from Hwy. I hunted acres of manzanita along main Hwy in early a.m. It's fairly steep, but contains sufficient

Journal

R. M. Zink
1979

Bird List 3-4 mi. E Kinnear Mtn.

15-17 July

Red-t. Hawk	2 ad., 1 imm.	over brush + open forest
Calif. Gull	1 ad.	Flew over pack station (a.m. 7/17th)
Poorwill	1	heard p.m.
unid. Selasphorus	3+	brush
Com. Flicker	4	open forest
Red-br. Sapsucker	4	" "
Empidonax	6+	brush
West. Wood Pewee	2+	open forest
Vio. Green Swallow	4+	over valley
Steller Jay	4+	open forest
Cl. Nutcracker	4	" " + flying
Mt. Chickadee	2	" "
White-br. Nuthatch	3+	" "
House Wren	4+	brush
Robin	4+	open forest
Hermit Thrush	4+	forest (heard)
Mt. Bluebird	10+	open sage
Town. Solitaire	2	" forest
Audubon Warbler	2+	" "
Orange-c. Warbler	4T	brush
Brn.-h. Cowbird	2	open areas
West. Tan.	4T	open forest
Cassin Finch	10+	" " + brush w/ trees
Pine Siskin	4	" "
Gm.-h. Towhee	4-8	brush
Junco	4	open forest
Brewer Sparrow	6+	open sage
Fox Sparrow	15+	brushy areas (see sg. acct)

R. M. Zink
1979

Journal

18 July (cont'd) Woodsford vicinity, Alpine Co, Calif

brush for Fox Sparrows. There is also Ribes, Prunus, Artemisia + a few Antelope bitterbrush. There is also lots of large granite boulders - almost too much seemingly for much duff to accumulate as it looks as though it would be washed away fairly easily. Drove up road to Lake . There is a spot about 0.8 mi. from the turn to , where a fire went through some time ago. There still lots of live ponderosa pines + a considerable amount of young (≤6-8 in.) manzanita. There are a few spots where it's higher (2 ft.) + some Ribes but in general, the good brushy areas are on the W side of the road, as there is a strip of brush below sage/Ribes + above road. Got 2 ♂ Fox Sp. ~~in mid~~ at noon. There are lots of scattered pines + aspen ~~trees~~ & the brush is interspersed. Returned to camp rest of day. Rained late afternoon.

19 July Hunted strip of brush across from campground in early a.m. Again noted the brush spp. heterogeneity. There were few birds seen + not too many Passerella iliaca. It rained mid-day. We headed toward Pickett Peak in late afternoon + hunted along rd. to Pickett Pk.

20 July 0600-1200 Hunted area ½ mi. W Pickett Peak. This area is a mosaic of micro-habitats, but sufficient brush to support a large density of Fox Sparrows (see sp. acct).

R. M. Zink
1979

18-20 July

Journal

Bird List, Woodfords (½ mi. S, 1 mi. W) = W
½ mi. W Pickett Peak = P

18-20 July

Sp.	#	Remarks	W or P
unid. Buteo or Gold. Eagle	1	over Pickett Peak, poor light	P
Morning Dove	2+	along Rd.	W
Saw-whet Owl	1	heard night of 18th	W
Com. Nighthawk	2+	" " " 19th, mod. dive noise	P
unid. Selasphorus	4+	brush	W/P
Com. Flicker	2	open forest	W
Red-br. Sapsucker	6+	" "	W+P
Williamson "	1 ♀	" "	P
Hairy Woodpecker	1	" "	P
White-h. Woodpkr.	1 imm. ♂	" "	W
Empidonax sp. Dusky	6+	brush	W/P
West. Wood Pewee	6+	open forest	W/P
Vgt. Green Swallow	6+	over brush	P
Stellar Jay	6+	open forest	W+P
Scrub Jay	2-3	prob. family - brush/conifer	W 19th a.m.
Clark Nutcracker	6	open forest	W+P
Mtn. Chickadee	18+	" "	W+P
White-br. Nuthatch	6+	" "	W+P
Red-br. "	6+	" "	W+P
Brown Creeper	2+	" "	W
House Wren	6+	" "	W+P
Robin	2+	" "	W
Hermit Thrush	6+	forest	W+P
Tom. Solitaire	2+	open forest	P
Warbling Vireo	6+	" " + brush edge	W+P
Orange-cr. Warbler	4+	brush	W
Audubon "	4+	open forest (singing ♂)	W+P

R. M. Zink
1979

Journal

Bird List

Woodfords + Pickett Peak, Alpine Co, Calif.

18-20 July (cont.)

West. Tanager	6+	open forest	W + P
Cassin Finch	10+	" "	W + P
Green-t. Towhee	10+	brush (most common at P)	
Rufous-s. Towhee	4+	"	W
Junco	10+	"	W + P
Fox Sparrow	W - 15+ P - 30+	"	W + P

Departed 1230 from Pickett Peak site to Indian Cr. Reservoir + spent rest of day working on birds. Rain.

21 July — Departed Indian Cr. Reservoir + went to Carson City for supplies. At 3:30 p.m. drove Hwy. 50 rd. to Trial Cr. campgrounds - which is closed. Finally found the ~~road~~ Kings Canyon Rd. - just E of Spooner Summit + camped about ¾ mi. in. The habitat is essentially a mosaic of forest, brush + riparian. The forest is dominated by mature Ponderosa Pine + Fir, the brush/open occurs in size from isolated bushes to extensive patches w/ the 10 species of Tobacco bush © transients © Castanopsis, + then sage (common higher up) + some Ribes. The forest also goes from dense + extensive to few scattered trees in the brushy spots. There are some large granite outcroppings. Rain is ~~evening~~ hard, hard drizzle during day

22 July — Hunted early a.m.; there was considerable activity as the day after a cold day-long rain apparently had things busy catching up. Walked E on Kings Canyon Rd., hunting brush patches. We then drove E on rd. + hunted brush

R.M. Zink
1979

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22 July (cont.) 2 mi. N / mi. W Dresser Bliss Pk. 2130m, Douglas Co. Nevada
patches along road. As the road heads along,
to the E side of the mtn, the vegetation & drastically-
most of the trees are gone (past fire?) + the vegetation
is scattered bush + sandy slopes to extensive brush-
narrow some in quite steep. We drove to Carson City +
saw a Prairie Falcon (see sp. acct). Birds seen
along Kings Canyon Rd. Douglas Co. Nevada, 21 - 8 p.m. 22 July;

Gr. Blue Heron	1 ad.	along willow thicket / stream
Sharp-shin. Hawk	1	quick glimpse of 1 w/ food, a.m. 22nd
unid. Hummer	1+	forest edge
Flicker	2	" "
White-h. Woodpkr.	1	" "
Empidonax	4	brush prob. E. oberholseri
W. Wood Pewee	2+	forest - calling
Violet Green Swallow	4	over canyon
Steller Jay	4	forest
Clark Nutcracker	10	"
Mountain Chickadee	4	"
White-br. Nuthatch	2	"
Red-br. "	4	"
House Wren	4	brushy
Robin	6	" + forest
Hermit Thrush	3	forest - heard
Townsend Solitaire	4	"
Audubon Warbler	2	" edge
Hermit "	1	
Wilson "	2	willow thicket along stream

R. M. Zink

1974

Journal

2 mi. N, 1 mi. W Duane Bliss Park, 2130', Douglas Co. Nevada

22 July (cont.)

bird list (cont.)

Brown-h. Cowbird	4	open forest
Wst. Tanager	4	" "
Cassin Finch	6	" "
Green-t. Towhee	8	brush
Junco	8	"
Chipping Sparrow	2	" forest edge
Fox Sparrow	15+	brush
Olive-s. Fly	2	forest

Note: The above list is prob. missing a few as it was written 2-3 July - however the weather was rather poor, esp. p.m. 21, so we weren't there long enough to assess the avifauna.

R.M. Zink
1979

Journal

Carson City to Warner Mtns. Modoc Co. Calif.

22 July (cont). Drove to Altturas & saw Golden Eagle - see 22, 0cd).
Drove out Rd. to Shields Cr. & camped. Saw several
nighthawks at edge of canyon (volcanic cliffs) +
sage & Pinyon on flat above. We heard + saw Common
Nighthawk, but several flying low impressed us as
possibly Lesser - but since this is out of their range
we assumed they were Com. + many Rock Wren

23 July Drove into Alturas + consulted w/ USFS about
fossils, Fx Sp. localities. The resident naturalist
or wildlife specialist didn't know birds + was of
little help. We drove to Plum Valley Campground
+ worked on specimens. Then in evening took Rd. to
Sugar Hill, passing N. Fk. of Davis Cr. We
passed a lot of sage covered hills w/ some Pinyon +
Pines in rolling. Some of creeks had willow
growth - but we saw 0 aspen that Linsdale
noted in 1924 at Eagle Pk. Some hillsides
had manzanita. About 2 mi S of Sugar Hill,
there an extensive area of brush. We
spent rest of a couple Fx Sp. along rd.
int. habitat of ½ pines + ½ Castanopsis sempervirens.
Drove to Sugar Hill L.O. - impressive view.

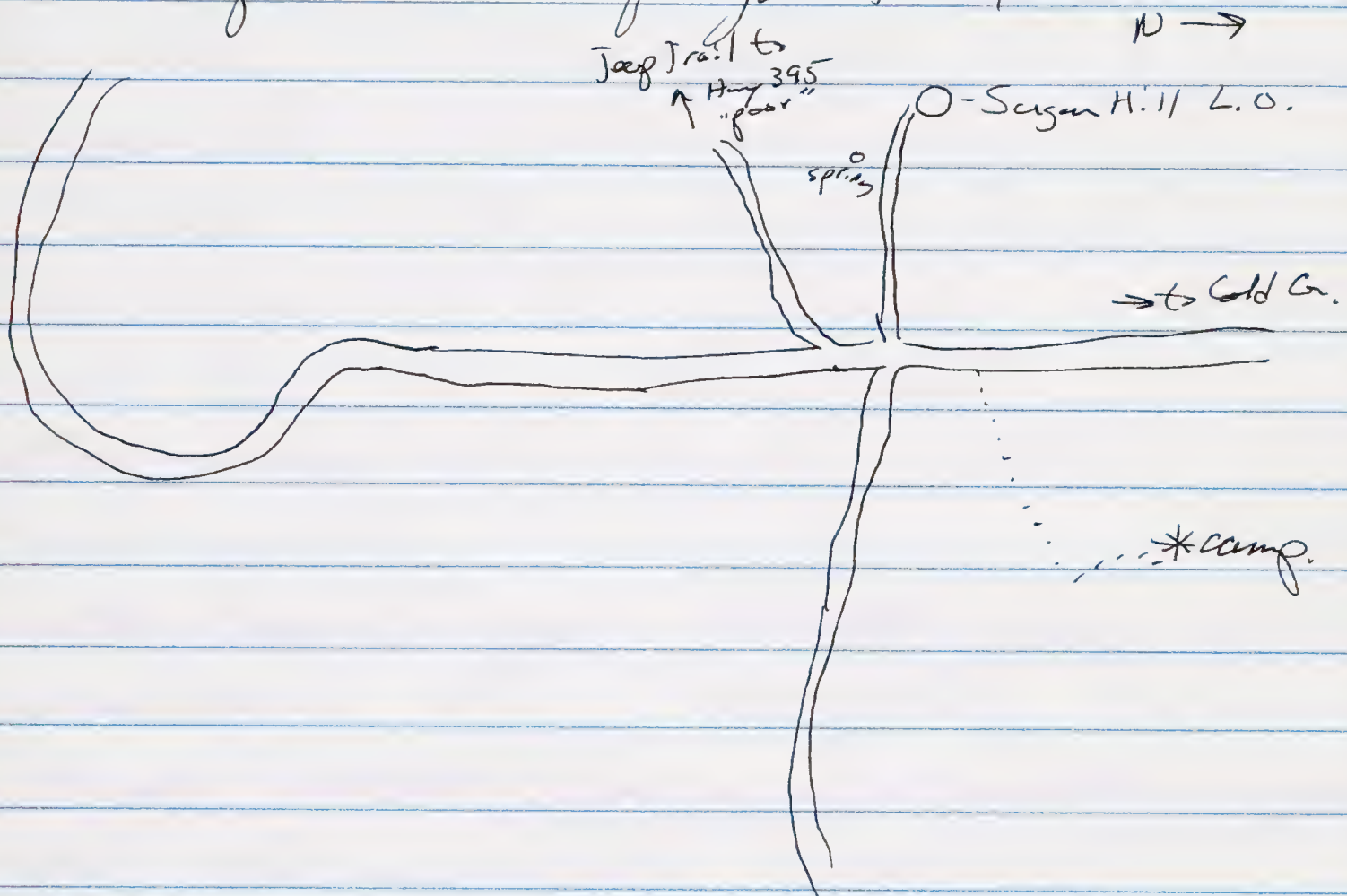
24 July Hunted the brushy hillside ½ mi. S of Sugar Hill.
In areas w/o trees, the brush seemed less common

R. M. Zink
1979

Journal

Sugar Hill vicinity, 1850m, Modoc Co, Calif.

24-27 July we camped ~2 mi. S of Sugar Hill.



Above is a general map (not to scale) of the area hunted 24-27 July. There are several habitats in the vicinity. Much of the area has burned prob. quite awhile ago. There are few <5" snags remaining & the USFS has apparently tried to plant Pinus, w/ limited success. There are few old trees but some Pines & Abies. The area 1½ mi. S of Sugar Hill is comprised of 6-25' Pinus 5-50%, 2-6' Tobacco bush (Ceanothus) 0-80% + open ground w/ grasses. Thus there's a fair amount of variation - from fairly dense stands of pines to pine/brush - almost woodland to brush/open ground. In some of the more open areas there is Artemisia, and some Ribes.

R. M. Zink
1979

Journal

Sugar Hill vicinity, 1850m, Modoc Co, Calif.

24-27 July	Golden Eagle	1 imm.	see sp. acct.
	Turkey Vulture	2+	one brush
	No. Harrier	2+ ad. ♂, ♀ + imm?	" "
	Cooper Hawk	2+	open forest
	Kestrel	2+	snags in brush
	Blue Grouse	2+	open forest
	[Calif. Quail	2+	Davis Creek]
	Mourning Dove	4+	ad. 2+ singing ♂♂
	Great-horned Owl	2	open forest
	unid. Humm. (selasphorus not-gen.)	4	brushy areas
	Common Flicker	6+	open forest
	[Pileated Woodpecker - borings seen at Plum Valley Campground]		
	White-headed Woodpecker	2+	forest
	Williamson Sapsucker	1	♂ (RMZ 1181)
	Hairy Woodpecker	1	open brush/forest
	Empidonax	6+	brush - prob. Dusky
	Western Wood Pewee	2	open forest
	Olive-s. Fly. ?		" "
	[Barn Swallow Cliff Swallow	Davis Creek]	
	Steller Jay	10	forest
	Mt. Chickadee	10	open "
	Red-br. Nuthatch	10	" "
	House Wren	6	brush
	Robin	50+	flocking & flying high in evenings
	Townsend Solitaire	4	open forest (calling)
	Hermit Thrush	4+	" " (nestfull imm.)

R.M. Zink
1979

Journal

Sugar Hill vicinity, 1850m, Modoc Co. Calif

24-27 July	Mt. Bluebird	2+	open areas + snags
	Golden-c. Kinglet	1	" forest (heard only but poss.)
	Solitary Vireo	1	open forest + brush (on 25 July - heard singing + seen - RMZ)
	Warbling Vireo	4	brushy areas
	Orange-c. Warbler	12+	" "
	Nashville "	4+	" " (incl. 2 imm.)
	Audubon "	4+	" "
	Brown-h. Cowbird	10+	" " (incl. 1 juv.)
	Western Tanager	8+	open forest (1 karyotyped)
	Bl.-h. Grosbeak	2+	brush
	Lazuli Bunting	4+	"
	Cassin Finch	10	" + forest
	Lesser Goldfinch	1	"
	Green-t. Towhee	20	"
	Rufous-s. Towhee	2+	"
	Junco	15+	"
	Brewer Sparrow	1	singing @ 6 a.m. of 27th. v. Little sage 1 mi S, 3/4 mi E Sugar Hill
	Fox Sparrow	35+	"

add Sharp-shinned Hawk 1 open forest + brush

The slopes aren't too steep. The weather was clear - partly cloudy. Soil was a grayish ash or weathered volcanic material. Oh some slopes bits of basalt + boulders exist. The site 1 1/2 mi S 3/4 mi E Sugar Hill, is along the road to Cottonwood

R.M. Zinke
1979

Journal

24-27 July (cont'd)

Sugar Hill vicinity, 1850m, Modoc Co, Calif.
Flat, and has 0-5% Pinus (6-25') + Abies (6-25'), 0-3% Tobacco (2-6') brush + 0-3% Prunus (6-15'), + this differs from 1 Em. S Sugar hill by the occurrence of Prunus. In the general vicinity of Sugar Hill there are several types of brushy habitats, basically interwoven w/ varying densities of trees. We drove road to Cold Cr. + then followed rd. along Lassen Creek - we found some hillsides essentially dominated w/ Prunus + some dominated by sage, plus some stands of Pine & Fir. However there weren't any areas w/ more than about 15% Tobacco brush, hence we didn't look too hard for Fox Sparrow. There's a fairly long meadow along Lassen Creek. We therefore spent most of our time in the immediate vicinity of Sugar Hill. There's a nice spring almost to the Sugar Hill L.O. Also at Davis Cr. is a small store + gas station.

Drove to Alturas evening of 27th.

28 July

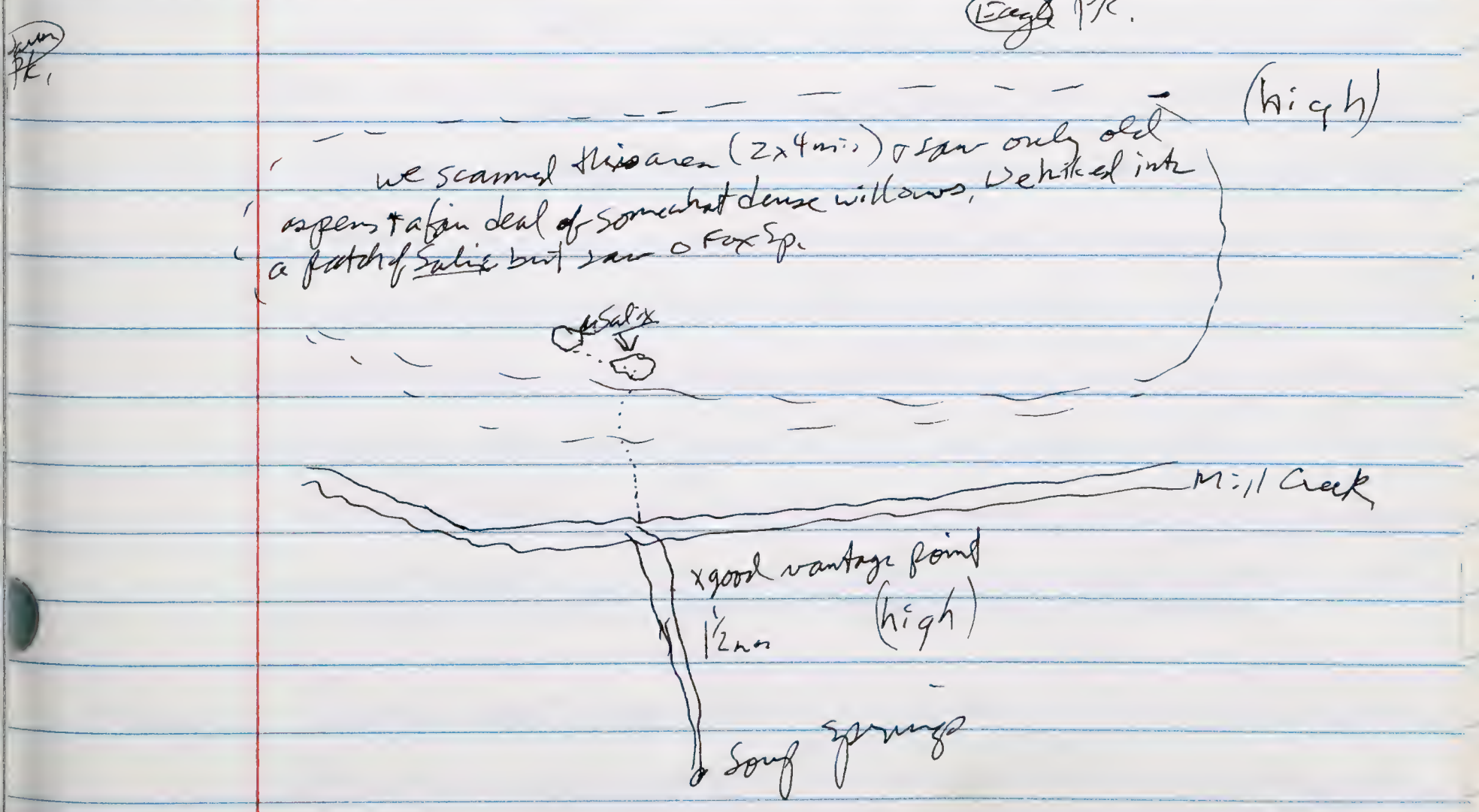
Drove S from Alturas (2 mi. S saw 11 Sandhill Crane) to Likely, there turned E + drove S past Jess Valley to Patterson Guard station. Saw no montane chaparral similar to Sugar Hill - only sage conifer (Ponderosa, Lodgepole, Abies), aspens + lots of open grass w/ mule ears. From Patterson G.S. we drove rd. to Bearcamp Flat. There are some fairly dense stands

R.M. Zink
1979

Journal

S Warner Mtns, Modoc + Lassen Coo. Calif.

28 July (cont'd) of about 6' Salix + lots of aspens - but nothing that looked good for Fox Sp. (unless the willow/aspen community is used for breeding). There was also some coniferous growth + Mt. Mahogany. We returned past Patterson G.S. + took rd. around Mahogany Ridge - lots of conifers, aspen + mahogany + a very few tobacco bush (stopped briefly + squeaked but o). Then decided to try the old Eagle Pk. locality of Linsdale (1928), We drove to Soup Springs Campground + part way on very poor road to Mill Creek. We met 2 birdogs living at Soup Spgs. + doing open country vegetation surveys for Forest Serv. One knew birds + hadn't seen but 1 Fox Sparrow - however, they just avoided brushy areas. So, we hiked the following:


Eagle Pk.
(high)
we scanned this area (2x4 mi.) & saw only old aspens + a fair deal of somewhat dense willows. We hiked into a patch of Salix but saw o Fox Sp.
Salix
Mill Creek
x good vantage point
(high)
1½ mi
Soup Springs

R.M. Zink
1979

Journal

S Warner Mtns, Modoc + Lassen Cos, Calif.

28 July (cont'd) From our vantage points above + on W side of Mt. Ida Creek, we could see nothing on the W facing side of Eagle Pk. + Saddleback that resembled the "aspens + brushes at base of rockslide" that Linsdale wrote contained Fox Sparrows in 1926. It is possible that there are scattered brushy places + that the birds are in willows + have left, but the aspens + conifers perhaps obscure such areas. However, there are a # of open places visible + they are dominated by Salix or grass + Mahonia (+ cons). There is one spot near top (¼ mi. N of ¼ mi. W Eagle Pk.) that might be brushy. At any rate, it seems as if this area has changed in 50 years.

The rest of the day in driving around, we saw many open areas but they contained little or no brush - only grass + rocks + cacs. The botanist for the USFS at Sony Spgs. mentioned the Shields Canyon burn 700 acres replanted 1947 + is presently elderberry thicket. There's a sign on road + some old stumps are visible, however the elderberry patch is E of road - we didn't check it out but it's worth a look perhaps for future. CT 142 N, R. 15 E, S central ½ of sec. 34. They also mentioned that ~30 goshawk nests had been located this year - probably in Calif. Portion of Warners. Camped at head of RMZ 1187.
Saw 2 Nighthawk (common), Poorwill, Olive-s. Flycatcher, Horned Gr. Owl

29 July Drove E past Peppermint Pack Station. There's an old burn site on S side of road (S ¼ sec. 20) that is fairly open

R.M. Zinsk

1979

Journal

S Warner Mtns. Modoc Co, Calif.

29 July (cont'd) but does have some fairly dense Ribes + Sambucus. Stopped at a couple localities but saw/heard o Fox Sparrows. Also, the habitat doesn't look quite right. We turned N on road to Cedarville. Along this road we saw little in the way of brushy habitats. Did see a Goshawk + 2 Imm. Red-tailed Hawks along forested portion of road. At the road nears end of Nat'l. Forest land, it follows a creek w/ Salix + cottonwood. So, to date, we've found essentially little habitat that looks suitable for Fox Sparrows. From the spot we camped + above on rd. to S Fk. Parker Creek we could see what is apparently the E side of the Shields Creek burn. It's fairly steep + again w/ few snags remaining. There did appear to be some brushy spots that could be suitable for Fox Sparrows but probably would require several hrs. to hike in + explore. We drove to Cedarville + then took road W to Cedar Pass. Again brush was Artemisia w/ some Salix along streams. At the summit (6000'), there are some slopes covered w/ brush ~~including~~ including Tobacco brush, Prunus, Ribes, Artemisia + willow. There are some fairly extensive patches of Tobacco brush + areas of Tobacco brush + trees (pines, fir - willow).

30 July Hunted a.m. but not too early due to the sleep we lost last night investigating the car crash above

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Cedar Pass, 1830m, Modoc Co. Calif.

30 July (cont'd) our camp. The slopes on S side of road looked like great Fox Sp. habitat but I heard a sm o evening of 29 & a.m. of 30th, despite 3 hrs. of hiking - Alpine the only Fox Sp. I saw or heard. yesterday & one heard "chinking". The brushy hillside has the following habitats - brush/tree, tobacco brush patches, Artemisia mostly higher, Prunus stands, scattered Ribes & scattered Abies concolor & Yellow Pine.

Birds Seen 29-30 July, Cedar Pass, 1830m, Modoc Co, Calif.

Red-tail	1	over stream & brush
Sharp-shinned Hawk	1 ?	brushy hillside w/ conifers
Cal. Quail	6	family 2 mi. S Cedar Pass
Mourning Dove	2	flying
Unid. Hummer	2+	brush - prob. Selasphorus
Common Flicker	2+	open forest
Western Flycatcher	2	calling along stream (RMZ 1190)
Dusky "	4+	brush
Western Wood Pewee	2+	along stream
Steller Jay	4+	open forest & dense brush & tree
Vio-Gr. Swallow	2+	near stream

[Scrub Jay - Cedarville on a.m. 29th]

Mountain Chickadee	4+	dense Willow & open forest
Red-br. Nuthatch (heard)		
House Wren	2+	brush
Robin	4+	" & open forest
Dipper	1 Prob. Young	stream at Cedar Pass
Town. Solitaire	1	open forest

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Cedar Pass, 1830m, Modoc Co, Calif.

July 29-30 (cont.)

Warbling Vireo	4+	open forest (& singing)
Nashville Warbler	4+	brush
Western Tanager	4+	open forest
Gm.-t. Towhee	3+	brush - higher w/ Artemisia
Junco	6+	"
Fox Sparrow	2 call., 1 heard	" (see sp. acct).

30 July (cont.)

Drove to Alturas & then S+W to Adin. Stopped at Ranger Station & talked w/ Jim Gordon, who told of 3 spots that were montane chaparral.
① Manzanita Ridge ② T.37N, R.9E, sec. 12+13 along road ③ T.36N, R.8E, E½ secs. 7+18
We drove to Manzanita Ridge (there's a Calif. Dept. For. L.O. at top). There's extensive areas of Arctostaphylos along the 3/4 mi. from the main road to the L.O. turnoff (+¼ mi. up to L.O.). It's (the manzanita w/ few other brush spp.) is mixed w/ trees (fir & some pine) but looked like excellent Fox Sparrow habitat. I walked through several patches but saw/heard 0. Even though it was mid-afternoon, I would have expected to find at least 1 Fox Sp. if they were present. (Saw 2 Blue Grouse) This area deserves more work, especially for increased acts between [arbor] & [megathyrsa]. We went back through Adin & W to a road which led to 2nd area [T.37N, R.9E, sec. 12+13]. There's some large patches of [+ Mt. Mahogany - more open than] manzanita, but

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Vicinity of Adin to Lassen Peak.

30 July (cont'd) & saw/heard no Fox Sparrows. Again, we mainly worked along road - often from combat in my experience if Fox Sp. are present, they will respond - & none did. However, this area also deserves further work, especially earlier in year. There some Pond. Ponderosa plus conifers (Jeffrey pine) near to mixed in w/ the ponderosa. We drove to Hayden Hill L.O. as this is mentioned by Grinnell & Miller (1944) as the SW extreme for fuscescens. Could see little likely habitat. Saw Bobwhite below L.O. Drove S towards Susanville & exit W N of Eagle Lake, to head toward Lassen.

31 July, a.m. found some enticing patches of brush w/ : T. 32N, R. 10E - along "Hwy" through secs. 28, 20 & 19. However no Fox Sp. were seen or heard, & I'm beginning to think that ① the birds are not there ② they have left ③ they're molting & extremely shy or ④ you have to be out early a.m. (we were there 8:30-10:00). We drove to West Prospect Pk. L.O. at noon & then hunted the montane chaparral below, which is where collected last year & noticed that there is a mixture of brush spp.: 0-10% Ribes, 0-20% Castanopsis sempervirens, 30-60% manzanita, 30-50% Ceanothus velutinus (Tobacco bush), plus scattered to dense Abies + Pinus (Lodgepole,

see catalog for locality

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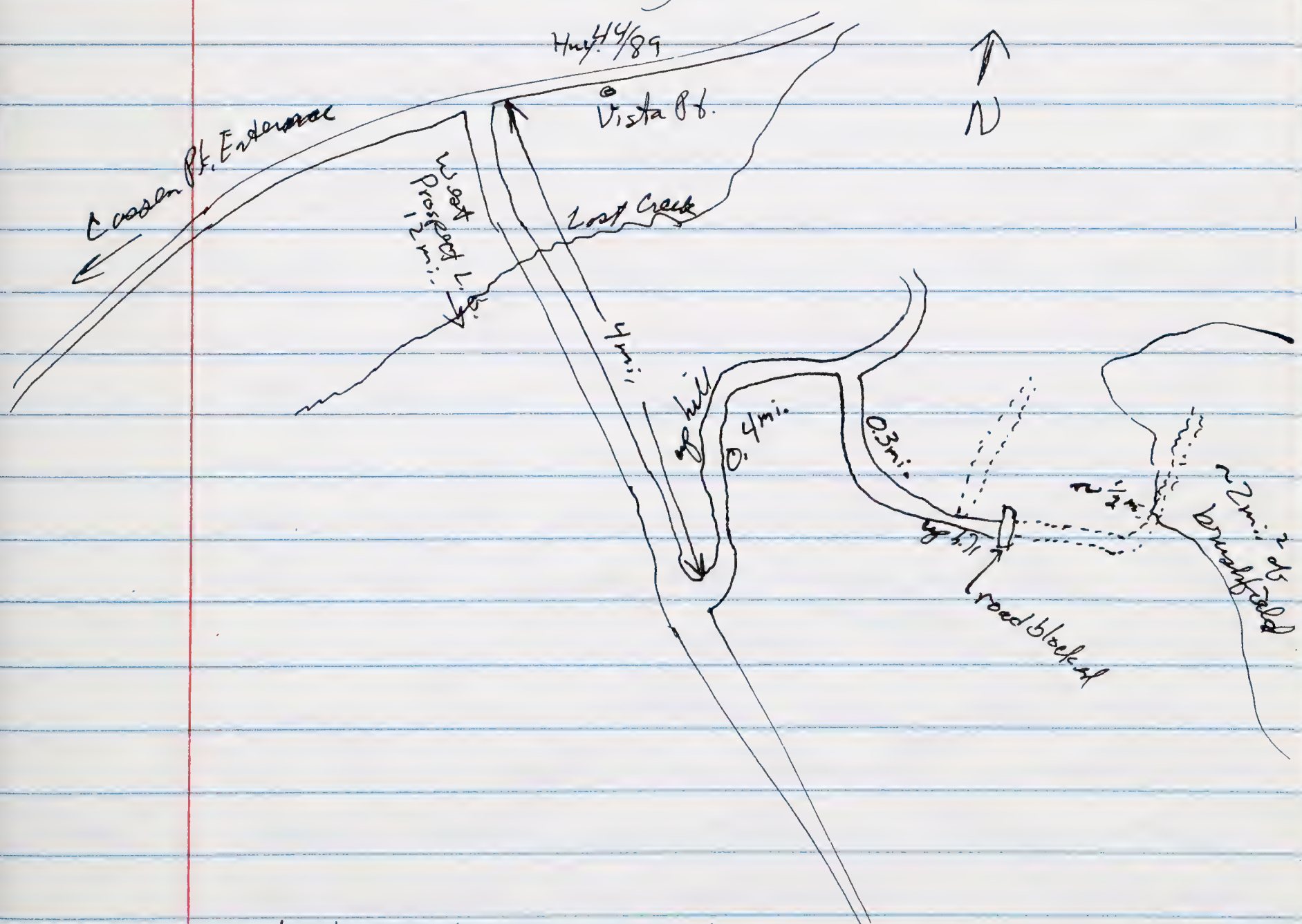
Lassen Pk. vicinity, Shasta Co., Calif.

31 July (cont'd) Jeffrey + Ponderosa). Coll. 9 Fox Sp. in late afternoon. The brush was very still w little bird activity - I walked a long ways to get 9 Fox Sparrows.

1 August Hunted in a.m. Again, there was not a lot of bird activity, even early. Was able to coll. 6 Fox Sp. West to Hat Cr. for afternoon. Returned in p.m. to other coll. locality of last year (see 1978-79 catalog):



This brushfield is extensive w/ probably at least 1 mi.^{2} of area. The USFS planted trees some time ago (Pinus) & while they are scattered

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Lassen Peak vicinity, Shasta Co. Calif.

1 Aug. (cont.) they seem to have sufficient foothold to one day move out over the brush, which is presently dominant (85-100%, ≤4ft.). The brush is mostly Arctostaphylos w/ some Tobacco bush, 2-3% Ribes & some Castanopsis (Adfink). The USFS previously bulldozed brush into rows but there is lots more brush. I originally suspected that this was a failure on the part of USFS to control the brush (1978 journal). However as I noted above, there seem to be ~10% (mostly 4-15 ft. scattered groups of 15-20 trees. that will probably succeed into Pinus forest eventually. On the road to Prospect Pk. L.O. (between Hwy 44/89 & turn off to this side) there's a sign which says that trees were planted 1961/2 - However this may not be true for the area in which I've worked the past two years & says nothing about when the original burn occurred (except that it was pre 1961). There are a couple large Pinus & some Abies remaining but few snags, some volcanic rock piles/outcrops. The soil is light colored & gravelly w/ small stones.

2 Aug. Started early a.m. (out by 0630). Things were rather still. There seemed to be a slight peak in activity when the sun rose over W. of Prospect Peak L.O, but nothing striking nor did it last more than 5-10 minutes. By 0830 it was getting

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Lassen Pk. vicinity, Shasta Co. Calif.

2 Aug. rather warm & even ~~was~~ moving around.

Bird list 31 July - 2 Aug.

Sharp-shinned Hawk
~~Kestrel~~

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Berkeley to Shaver Lake, Fresno Co, Calif.

4 Oct. Susan Kaiser, Dave Good + I left MVZ for Shaver Lake. Saw 2 DOR Tyto alba on Hwy 5 near Coral Hollow, many Buteo jamaicensis, 2 White-tailed Kites. Arrived Shaver Lake 9:00 p.m.

½ mi. S, 2½ mi. W Bald Mtn, 5400 ft, Fresno Co, Calif.

5 Oct. Up 0630 to sounds of Ruf.-sided Towhee + singing Passerella iliaca. Spent most of day hunting for Fox Sparrows. In a.m. (0700-0900) there was a lot of activity w/ large flocks of White-cr. Sparrows, Junco, few Chipping Sparrows, Yellow-rumped Warblers + some Myr. Chickadees + Red + White-br. Nuthatch. Weather was mostly clear + warm all day. We hunted mainly chaparral-type habitats (see previous F-M-Z trips for habitat descriptions).

6 Oct. We hunted some of same areas as yesterday (see catalogs of D. A. Good + S. Kaiser). There was a morning peak of activity w/ a flock of 150 Evening Grosbeaks, 20+ Cedar Waxwings + various numbers (10-20) White-cr. Sparrows + Cassin Finch. However, by 0830 there was little activity. I decided to move camp to N of Shaver Lake. Was colder last night + this a.m. There was a yellowjacket nest near camp + many continually harassed us (I was stung 2x yesterday). Last night Lee Wregory

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½ mi. S, 2½ mi. W Baldy Mtn. 5400 ft. Fresno Co. Calif.

6 Oct. to close the entrance (in fallen log). It took a couple trys to size up hole + by then, in a very cold night, there were 60-100 yellowjackets around the entrance, where there was only 1 sentry before! Bird list 5-6 (noon) Oct.:

Sharp-shinned Hawk	4	ads. + 1 imm. Saw 1 frighten a large flock of White-c. Sparrows
Red-t. Hawk	2	ads. fairly close, perched together in one
Mt. Quail	5-10	2 groups of 4 (on 5th + 6th)
Band-t. Pigeon	2+	perched typ. dead tree
Morning dove	1	flying
Red-sh. Flicker	2-4	open forest
Hairy	2-4	" "
Steller Jay	25+	" "
Common Raven	3+	heard in forest
Mt. Chickadee	10	open forest
Red-br. Nuthatch	10	" "
White-br. "	2	" "
Robin	2	" "
Western Bluebird	20+	ind. flocks
Ruby-c. Kinglet	10+	forest + brush
Cedar Waxwing	25+	"
Orange-cr. Warbler	3	brush
Yellow-rumped "	40	" open forest
Brewer Blackbird	25	flock near Shaver Lake
Western Tanager	1	heard S. Kaiser
Evening Grosbeak	150	tops Trees

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½ mi. S, 2½ mi. W Bald Mtn., 5400 ft., Fresno Co., Calif.

5-6 Oct. bird list

Cassin Finch	10-20	
unid. Goldfinch	5+	
Rufous-sided Towhee	10	brush
Junco	150	", open forest
Chipping Sparrow	2-4	" " "
White-cr. Sparrow	45	" " "
Fox Sparrow	15-20	" (see gen. acct.)
Brown Creeper	2+?	forest (singing)

We drove to locality that Don Shaney + I hunted last year (1½ mi. E Ely Mtn. 2040m). There is a lot of chaparral, incl. extensive patches of Ceanothus leucoderma, Arctostaphylos + Castanopsis sempervirens. There a mixture of brush-forest + forest (Pinus contorta, ponderosa, lambertiana), Black Oak + Abies. There is a fair amt. (0-30%) of granite exposed, as boulders or flat expanses. We hunted there afternoon + evening. Bird list follows.

7 Oct. We returned to 1½ mi. E Ely Mtn + coll. from 0800-1100. There was a lot of activity, incl. flocks of Yellow-r. Warbler, White-cr. + Golden-cr. Sparrows, Juncos, all in a rough "flock". Bird list from 6-7 Oct.:

Golden Eagle	1 ad.	high overhead on 6th
Sharp-shinned Hawk	1	in open forest
Red-tailed Hawk	1 ad.	overhead
Mt. Quail?	several	brush

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1/4 mi. E Ely Mtn. 2040m, Fresno Co. Calif.

6-7 Oct.

Red-sh. Flicker	4	open forest + on ground
Sapsucker	1	" "
Hairy Woodpkr	1	" "
White-h. "	4	" "
Rough-w. Swallow	1	over open area high; 6th
Steller Jay	50-75	open forest
Common Raven	2-3	" "
Clark Nutcracker	1-2	" "
MA. Chickadee	25+	" "
Red-br. Nuthatch	4+	" "
Brown Creeper	1	" "
Robin	5	" "
Hermit Thrush	2	" " , brush
Bluebird ? 1 - ground, to have been eaten by hawk		
Blue-gray Gnatcatcher	1	on 7th - open forest / brush
Ruby-cr. Kinglet	20	brush
Orange-cr. Warbler	5	"
Audubon "	50	open forest, brush
Bl-th. Gray	1	in Sugar Pine on 7th
Evening Grosbeak	10-15	open forest
Cassin Finch	10+	" "
Pine Siskin	10+	" "
Rufous-s. Towhee	10	brush
Oregon Junco	200+	brush
Chipping Sparrow	10	"
White-cr. "	105	"
Golden-cr. "	30	"

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1¼ mi. E Ely Mtn, 2040m, Fresno Co, Calif.
6-7 Oct. Fox Sparrow - 25 brush

11 December 0630 left MVZ w/ Swarth, Kaiser + David Good + headed for Lake Co. Calif. We intended to do some general collecting plus coll. wintering Fox Sp. specially. Drove N on Hwy. 101 to Ukiah + then cut off to Potter Valley + continued on to Lake Pillsbury. Drove to N end of Lake - there are some brushy-flat areas just N of road + near airfield. We continued on (+up) finally stopping at 750m T.17N, R.10W, SW¼ sec. 36. From Lk. Pillsbury to here, the habitat is mixed coniferous + chaparral. At our campsite + coll. locality, the habitat is 5-60% knobcone Pine, 0-5% Yellow Pine, 0-5% Fir, 5-85% chaparral (2-8 ft.) (2+? sp. of Arctostaphylos, Ceanothus, 0-5% madrone, 0-30% scrub oak). We hunted all day. Lots of Fox Sp. + Wrentits. Set 3 nets.

12 Dec. Up 0700. Temp. low 20°F. Clear today as yesterday. Hunted all day. There are many trails + 4-wheel roads. I was impressed at how easy one could walk through the chaparral. some areas were very dense, but if you found the intermediate kind of chaparral I hunted last 1 April near Piazo Pk. I'm not sure if this area burns regularly or not (I think I saw a couple burned stumps). The topography was hilly, w/ some fairly level spots + some fairly steep areas. There were some dry creek beds - I spent 30 min. clearing

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750m

[T. 17N, R. 10W, SW¼ sec. 16]

12 Dec. (cont) afternoon hoping looking for salamanders but found nothing. Did see coyote & deer tracks. We packed up at 1700 & returned to MVZ (2100) & proceeded to Kanopah 2 Fox Sp. & Current.

Bird List 11-12 Dec.

Sharp-Shin	1♀	over chaparral
Gr.-horn. Owl	1	hooting mid-night of 11th
Quail ?	poss. heard	
Scrub Jays	10+	
Hermit Thrush	5	chaparral, sycamore trees
Varied "	3+	" wetted 1" "
R-Sh. "	20	
Hutton Vireo	1	Am 2 1228 - calling from edge of Knobcone Pine - chaparral edge.
Bushtit	10-20	flock in brush
Wrentit	8+	very common in brush
Fox Sp.	8+	" " " "
Calif. Thrasher	4	brush
Raven	4+	overhead
Gold.-ca. Kinglet	1	brush near edge
Ruby-cr. Kinglet	15+	"
Steller Jay	2+	forest
Purple Finch	2+	♂ singing
Bewick Wren	10	brush
Hairy Woodpkr.	2+	loose forest edge

[Lower near Lake: Bl. Phoebe, 3 Yell.-r. warblers, 3+ Acorn Woodpkrs.